

# Creating our Digital Future

Join SMU School of  
Computing and Information  
Systems (SCIS)

School of  
Computing and  
Information  
Systems 1



UNDERGRADUATE



# MESSAGE FROM THE DEAN

Technology is shaping the world in an unprecedented way. At the School of Computing and Information Systems (SCIS), we are committed to equipping our students with the essential computing knowledge and skills for a career in technology. Our goal is to empower students to innovate solutions that create value for business and society.

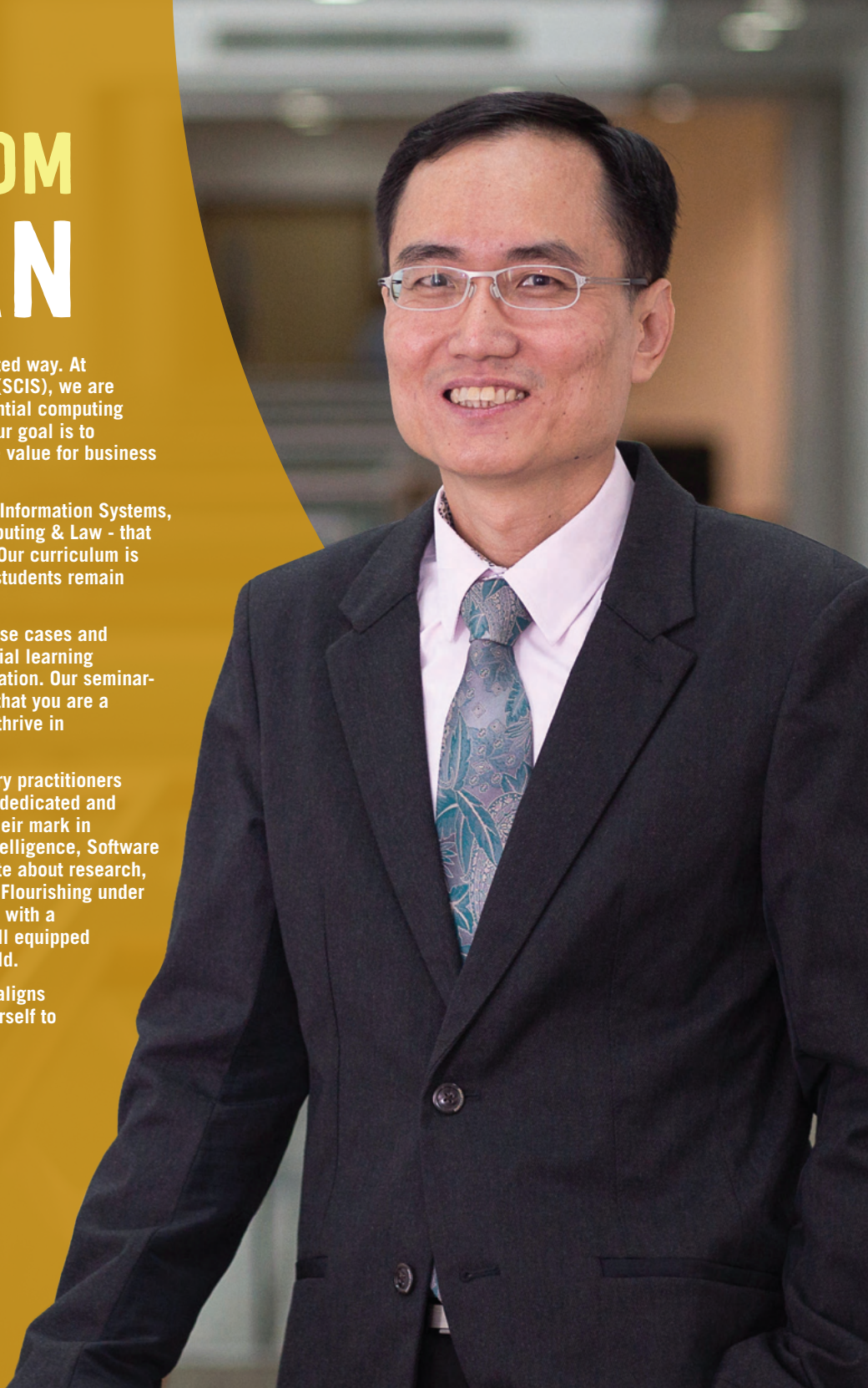
We offer four undergraduate degree programmes - Information Systems, Computer Science, Software Engineering and Computing & Law - that target different job roles demanded by employers. Our curriculum is reviewed regularly to ensure that the skills of our students remain relevant in the rapidly evolving digital age.

SCIS partners with industry to bring in real-world use cases and projects under the SMU-X initiative. This experiential learning approach prepares you to be job-ready upon graduation. Our seminar-style interactive learning environment will ensure that you are a confident communicator and team player who will thrive in the workplace.

We have eminent scholars and experienced industry practitioners among our faculty. You will be taught by a team of dedicated and internationally renowned faculty who have made their mark in specialisations such as Cybersecurity, Artificial Intelligence, Software Engineering and Data Science. If you are passionate about research, you can embark on a guided research programme. Flourishing under the guidance of a dedicated team of educators and with a hands-on learning approach, our graduates are well equipped to face the challenges of the complex working world.

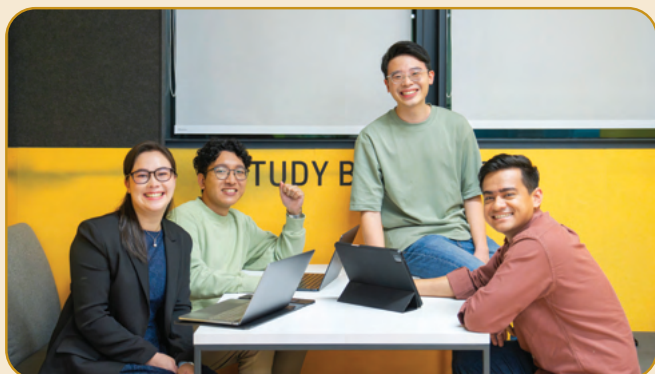
I am confident that you will find a programme that aligns to your passion and interest. Join us and equip yourself to create our digital future!

**Professor Pang Hwee Hwa**  
Dean, School of Computing  
and Information Systems



# WHY JOIN SMU SCHOOL OF COMPUTING AND INFORMATION SYSTEMS

OUR SCIS STUDENTS ARE  
INDUSTRY-  
READY



## HIGH GRADUATE EMPLOYABILITY

Achieve a 92% employment rate with a mean starting salary ranging from \$5,530 to \$6,120. (Graduate Employment Survey 2023)



## WORLD-CLASS COMPUTER SCIENTISTS & INDUSTRY PRACTITIONERS

Collaborate with faculty on innovative research and learn from their diverse industry experiences.



## MULTIPLE CAREER PATHWAYS

Tailor your learning journey with flexible combinations of majors and an option to graduate with a master's degree in 4.5 years.



## EXPERIENTIAL APPLIED LEARNING

Apply concepts to real-world projects and graduate with skills and global perspective to excel in the workplace.



# ABOUT BSc (INFORMATION SYSTEMS)

## NURTURING IT PROFESSIONALS FOR BUSINESS TRANSFORMATION

The Information Systems major equips you with the capabilities to develop intelligent IT solutions that create value for business and society. It gives you the flexibility to acquire either deep technical skills or a healthy balance of technical and business skills.



### INFORMATION SYSTEMS CORE COURSES 12 Course Units

#### TECHNOLOGY SOLUTIONING

Computing Fundamentals	Year 1
Business Process Analysis and Solutioning	Year 2
Digital Business - Technology and Transformation	Year 2
Enterprise Solution Management	Year 2
Software Project Management	Year 3

#### SOFTWARE DESIGN AND DEVELOPMENT

Algorithms and Programming	Year 1
Data Management	Year 1
Web Application Development I	Year 1
Web Application Development II	Year 2
Interaction Design and Prototyping	Year 2
Enterprise Solution Development	Year 2

#### INFORMATION SYSTEMS PROJECT EXPERIENCE Year 3 or 4

You will be applying the know-how learnt from courses into industry sponsored projects. You will get to tackle issues such as problem definition, change management, and stakeholder management working in a team to build prototypes.

### INFORMATION SYSTEMS TRACKS



#### BUSINESS ANALYTICS

##### Sample Track Courses

- Analytics Foundation
- Big Data Architecture
- Data Mining & Business Analytics
- Social Analytics and Applications



#### FINANCIAL TECHNOLOGY

##### Sample Track Courses

- Digital Banking Enterprise Architecture
- Blockchain Applications in Financial Services
- Digital Payments & Innovation
- Retail Banking & Mobile Technology



#### PRODUCT DEVELOPMENT

##### Sample Track Courses

- Object Oriented Programming
- Cloud Management and Engineering
- Enterprise Business Solutions
- Managing Customer Relations with Analytics: Asian Insights



#### SMART-CITY MANAGEMENT AND TECHNOLOGY

##### Sample Track Courses

- Digital Technologies for Environmental Sustainability
- Geographic Information Systems for Urban Planning
- Smart-City Operations Research
- Smart Healthcare in Asia



## INDICATIVE GRADE PROFILES

3H2/1H1 of Content-based Subjects for GCE A-Level Applicants:

10TH PERCENTILE	90TH PERCENTILE
BBB/C	AAA/A

GPA's for Polytechnic Applicants:

10TH PERCENTILE	90TH PERCENTILE
3.69	3.92

## EXPERIENTIAL LEARNING: CAPSTONE PROJECT

One example of a capstone project is the TeachingPro VR, a Virtual Reality (VR) application designed to enhance classroom management skills for new instructors at SMU. TeachingPro VR aims to address gaps in SMU's current Faculty Teaching Forum (FTF), where faculty members receive limited exposure to real-time classroom dynamics and authentic student behaviours. The application offers an immersive VR environment that emulates common classroom events, enabling instructors to practise handling disruptive behaviours, facilitating class participation, and responding to diverse classroom challenges in a simulated seminar-style setting.

### MAIN AUDIENCE

New SMU Instructors

### MAIN OBJECTIVE

Enhance the new instructor training process: Faculty Teaching Forum (FTF)

### BUSINESS PROBLEM

1

#### Unscalable Teaching

- FTF is resource- and time-intensive, limiting personalized support for each instructor

2

#### Unrealistic Environment

- FTF sessions lack the authentic classroom dynamics where real student behaviors emerge
- New instructors often feel overwhelmed and struggle to recall content after FTF ends

### TAILORED PRACTICE

Choose diverse classroom events for personalized learning



### GUIDED IMMERSION

Handle realistic student behaviours with guiding prompts



### REINFORCED LEARNING

Manage student behaviours independently and track progress



### ACHIEVEMENTS

TeachingPro VR provided a safe controlled classroom environment for educators to simulate teaching environment. By integrating performance tracking tools, and simulation of dynamic student interactions, educators got to practise navigating complex teaching scenarios with confidence, enhancing their preparedness for real-world challenges.



### PROJECT DONE BY

Douglas Toh Kai Wei | Joseph Ho Cheng Wee | Chan Kei On | Nicholas Lim Cong Yi | Jaden Goh Zheng Hui | Yeo Zhi Wei

### EXAMPLE OF JOB ROLES:

AI Applications Developer | AI Business Analyst  
 | Data Engineer | DevOps Engineer | Enterprise Architect  
 | Financial System Analyst | Product Developer | Software Engineer | Sustainable Solutions Developer | User Experience Designer

# ABOUT BSc (COMPUTER SCIENCE)

## NURTURING PROFESSIONALS FOR TECHNOLOGICAL INNOVATION

The Computer Science degree equips you with technical skills to build computing products and solutions to thrive in the marketplaces and society. This requires an understanding of the interplay between computing theory and practice and the essential links between them, as well as fundamental business innovation and IT solution development and management skills.



### COMPUTER SCIENCE CORE COURSES 17 Course Units

#### SOFTWARE DEVELOPMENT

Programming Fundamentals I	Year 1
Programming Fundamentals II	Year 1
Collaborative Software Development	Year 2

#### SOLUTION MANAGEMENT

Software Product Management	Year 2
IT Solution Architecture	Year 3
IT Solution Lifecycle Management	Year 3

#### INFORMATION MANAGEMENT

Data Management	Year 1
Interaction Design and Prototyping	Year 1


#### COMPUTER SYSTEMS AND ARCHITECTURE

Operating Systems	Year 2
Computer Networks	Year 2
Computer Architecture	Year 2

#### DISCRETE STRUCTURES AND ALGORITHMS

Linear Algebra for Computing Applications	Year 1
Statistical Thinking for Data Science	Year 1
Mathematical Foundations of Computing	Year 1
Data Structures and Algorithms	Year 2
Design and Analysis of Algorithms	Year 2
COMPUTER SCIENCE PROJECT EXPERIENCE	Year 3 or 4


### COMPUTER SCIENCE TRACKS



#### ARTIFICIAL INTELLIGENCE

Sample Track Courses


- Introduction to Artificial Intelligence
- Agent-based Modeling and Simulation
- Generative AI for Natural Language Communication
- Heuristic Search and Optimisation



#### CYBERSECURITY

Sample Track Courses

- Foundations of Cybersecurity
- Cyber Threat Intelligence
- Data Security and Privacy
- Software and Systems Security



#### SOFTWARE SYSTEMS

Sample Track Courses

- Full Stack Development
- Advanced Database Systems
- Computer Graphics and Virtual Reality
- Mobile and Pervasive Computing and Applications

### EXAMPLE OF JOB ROLES:

AI Solution Architect | Chatbot Engineer | Cybersecurity Operations Engineer | IoT Solution Architect | Machine Learning Developer | Product Manager | Software Developer | VR-AR Systems Engineer



## INDICATIVE GRADE PROFILES

3H2/1H1 of Content-based Subjects for GCE A-Level Applicants:

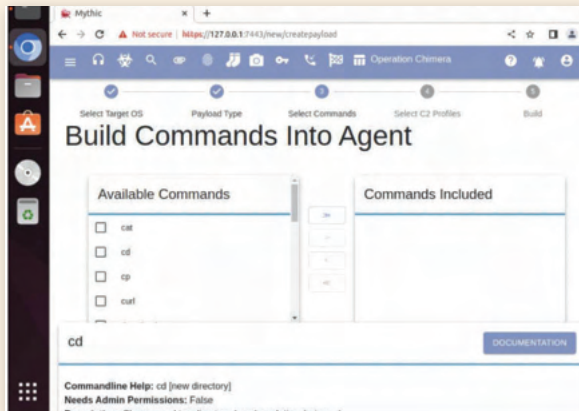
10th Percentile	90th Percentile
AAB/A	AAA/A

GPAs for Polytechnic Applicants:

10th Percentile	90th Percentile
3.80	3.97

## EXPERIENTIAL LEARNING: COMPUTER SCIENCE WORK-STUDY ELECTIVE

Computer Science Work-Study provides greater flexibility and value for the students, as well as developing industry-ready graduates who are more adaptable, flexible and innovative in building the next generation of computing solutions.



**JUSTIN LAM**  
Security Engineer (Offensive Security) Intern, ByteDance

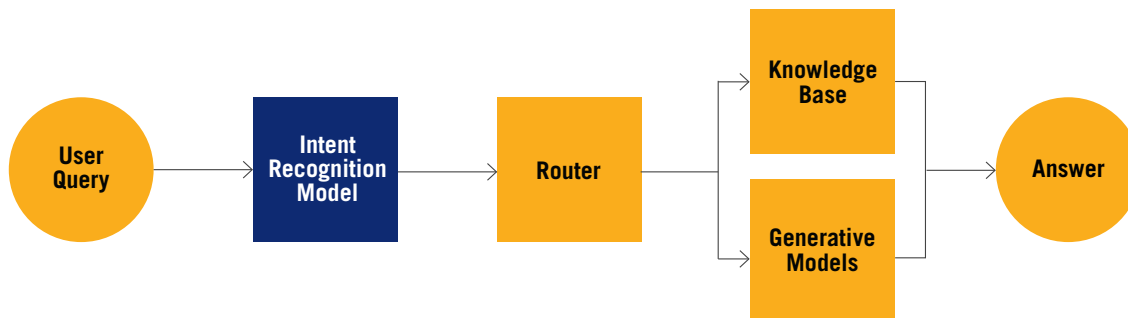
- Continuously conduct penetration testing to identify security vulnerabilities in the staging/production environment.
- Perform security engineering and develop tools/infrastructure to support the conduct of Red Team Operations.
- Monitor and analyse emerging cyber threats, vulnerabilities, and exploits relevant to our infrastructure and products.

I worked on an intent recognition model (extreme multi-label text classification) to serve both buyers and sellers in all the countries that TikTok Shop operates in, as well as those it would be entering in the near future. Some of my day-to-day tasks included:

1. Training models.
2. Running experiments on different prompts, data, and configurations.
3. Quality checks on training and evaluation data.



**WEI BIN AU YEONG**  
Algorithm Engineer Intern, eCommerce (Intelligent Customer Service), TikTok



# ABOUT BSc (SOFTWARE ENGINEERING)

## NURTURING TOMORROW'S SOFTWARE ENGINEERS

The BSc (Software Engineering) degree prepares students to become highly-qualified software engineers using a curriculum that is co-developed and co-taught with our industry partners.

It features a rigorous 52-week apprenticeship where you get to work in development teams under the mentorship of professional software engineers.

SCIS collaborates closely with our industry partners to equip you with technical, teamwork and communication skills to take on software engineering roles. Besides mentorship, career talks and guest lectures, our industry partners will also co-develop and co-teach the curriculum to ensure that you are familiar with current trends and best practices in software engineering.



### SOFTWARE ENGINEERING CORE COURSES

12 Course Units

#### SOFTWARE DEVELOPMENT

Algorithms and Programming	Year 1
Web Application Development I	Year 1
Collaborative Software Development	Year 2
Programming Fundamentals II	Year 2
Web Application Development II	Year 2
Advanced Programming & Design	Year 3

#### COMPUTING FOUNDATIONS

Data Management	Year 1
Operating Systems and Networking	Year 1
Foundations of Cybersecurity	Year 2

#### SOLUTION MANAGEMENT

Enterprise Solution Development	Year 2
Enterprise Solution Management	Year 2
IT Software Architecture	Year 3

### APPRENTICESHIP

#### 52-WEEK FULL-TIME APPRENTICESHIP

Year 3 or 4

Get a head start in your career by embarking on an apprenticeship which is strongly supported by both academia & industry. Strengthen and broaden your technical and soft skills while solving real-world problems. The apprenticeship can be completed at 1 or 2 different companies.

### INDICATIVE GRADE PROFILES

3H2/1H1 of Content-based Subjects for GCE A-Level Applicants:

10th Percentile	90th Percentile
BBB/C	AAA/C

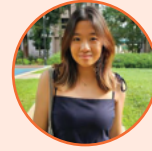
GPAs for Polytechnic Applicants:

10th Percentile	90th Percentile
3.66	3.89



## EXPERIENTIAL LEARNING: APPRENTICESHIP

"The extended apprenticeship of the Software Engineering degree gives me the chance to see projects through from start to finish. Like many others, I find the idea of entering the workforce intimidating, but this apprenticeship provides a better view of the professional world while giving me the space to learn and make mistakes. On top of that, the small cohort size and the frequent workshops have fostered strong relationships with my peers and professors, helping me feel supported both academically and emotionally. This is where I found my closest groups of friends."



**CLARISSA KOH**

BSc (Software Engineering)  
student, Year 3

"NCS is excited to be one of the inaugural partners of SMU in launching the BSc (Software Engineering) Degree. This collaboration reflects our belief that a career in IT goes beyond coding—it's about solving real-world problems with innovation and impact. By co-developing the curriculum, offering hands-on apprenticeship opportunities, and fostering mentorship through our industry experts, we are committed to equipping students with the skills and experience they need to thrive in the ever-evolving tech landscape. Students can also look forward to building their future with us and becoming part of our team at NCS."

**HOWIE LAU**

Managing Partner,  
Corp Development and  
Partnerships NCS Group



### NCS SCHOLARSHIP AVAILABLE TO FULL-TIME BSc (SOFTWARE ENGINEERING) STUDENTS

Established in 2022, the NCS Scholarship aims to motivate outstanding undergraduates at the University to achieve academic excellence and to inspire the younger generation in advancing their career in the technology and services industry.

### EXAMPLE OF JOB ROLES:

Full-stack Software Developer | Software Engineer | Web Developer |  
Software Quality Engineer | DevOps Engineer |  
Software Architect | IT Consultant

### OUR ANCHOR PARTNERS



# ABOUT BSc (COMPUTING & LAW)

NURTURING PROFESSIONALS FOR **DIGITAL LAW & GOVERNANCE**

The Computing and Law degree equips you with skillsets in operating IT and business innovations within a legal framework, and employing IT in legal practice. Beyond a solid foundation in computing and law, you will specialise in advanced technology tracks to become future-ready for business and public sectors, consulting and finance sectors, as well as the legal sector.



## COMPUTER & LAW CORE COURSES 18 Course Units

### COMPUTING CORE COURSES

Statistical Thinking for Data Science	Year 2
Algorithms and Programming	Year 2
Data Management	Year 1
Interaction Design and Prototyping	Year 2
Web Application Development I	Year 1
Digital Business - Technology & Transformation	Year 2

Business Process Analysis & Solutioning	Year 2
Software Product Management	Year 3

### LAW CORE COURSES

Contract Law 1	Year 1
Contract Law 2	Year 1
Law of Torts	Year 2

Criminal Law	Year 1
Corporate Law	Year 3
Intellectual Property Law	Year 2
Privacy and Data Protection Law	Year 3
The Singapore Legal System and Legal Analysis Skills	Year 1
COMPUTING & LAW PROJECT EXPERIENCE	Year 3 or 4

## INDICATIVE GRADE PROFILES

3H2/1H1 of Content-based Subjects for GCE A-Level Applicants:

10th Percentile	90th Percentile
ABB/A	AAA/A

GPA for Polytechnic Applicants:

10th Percentile	90th Percentile
No indicative GPA as sample size is small	



## EXPERIENTIAL LEARNING: FINAL YEAR PROJECT



A group of Computing and Law students concluded a project with international law firm Clifford Chance Singapore to develop a solution to automate regulatory alerters for the finance industry.

The students developed a solution that leverages web scraping, Robotic Process Automation (RPA) and Generative AI, to automatically track, identify, summarise, and compile regulatory updates into a single email digest.

“This project experience allowed me to draw upon both my Computing and Law knowledge. Not only did we get to build an end-to-end solution where we had to do web scraping, model training, and designing and building the backend and frontend architecture, we also had to determine which kinds of legislative news are most important for legal professionals, and factor in the legal implications of our solution. We also acquired the crucial experience of working with various stakeholders, including some from overseas. It was overall a very enriching and valuable learning experience.”



**KOH RUI XIN**

BSc (Computing and Law) alumna,  
Graduating Class of 2024  
(Featured third from left)

### EXAMPLE OF JOB ROLES:

**Business & Public Sectors:**

Digital Transformation Consultant | Technology Innovator |  
Regulatory & Policy Advisor

**Consulting & Finance Sectors:**

Technology Strategist | Compliance and IT Auditor | Risk Management Analyst

**Legal Sector:**

Legal Knowledge Engineer | Legal Tech/Project Manager | Legal Technologist

**Lawyers, Legal Advisors Practicing Technology Law:**

Only applicable to BSc (Computing & Law) with a Fast-Track to Juris Doctor programme offered by SMU Yong Pung How School of Law

# UNDERGRADUATE GUIDED RESEARCH OPPORTUNITIES

Undergraduate students are offered opportunity to experience academic research. In a specially designed UResearch programme, students discover their interest in research, while also preparing themselves for graduate studies. The programme allows students to apply their knowledge in real-world settings.

JOURNALS AND CONFERENCES WHERE OUR STUDENTS HAVE PUBLISHED PAPER AS CO-AUTHORS DURING THEIR UNDERGRADUATE RESEARCH PROGRAMME



**Multi-lingual multi-partite product title matching,**

by Huan-Lin Tay (Class of 2023), Wei-Jie Tay (Class of 2023), and Hady W. Lauw,

ACM Web Conference (TheWebConf'23), Apr 2023.



**Training language models to summarize narratives improves brain alignment,**

by Khai Loong Aw (Class of 2024), Mariya Toneva, ICLR 2023.



**Improving environment novelty quantification for effective unsupervised environment design,**

By Jayden Teoh (2023 Intake), Wenjun Li, Pradeep Varakantham,

AAMAS 2024



**Is a pretrained model the answer to situational awareness detection on social media?**

by Siaw Ling LO, Kahhe LEE (Class of 2024), and Yuhao ZHANG,

Conference Proceeding Article



**Automatic grading of short answers using Large Language Models in software engineering courses,**

by Nguyen Binh Duong TA and Yi Meng CHAI (2021 Intake), Conference Proceeding Article



**Peer learning in an undergraduate linear Algebra course - A social network analysis,**

by Manoj THULASIDAS, Kyong Jin SHIM, and Jonathan Edward TEO Jun Rui (2022 Intake),

Conference Proceeding Article



**Video sentiment analysis for child safety,**

by TAN Yee Sen (Class of 2024), TEO Nicole Anne Huiying, GHE Ezekiel En Zhe (Class of 2024), FONG Jolie Zhi Yi, WANG Zhaoxia,

The 2023 IEEE International Conference on Data Mining series (ICDM 2023), SENTIRE, Dec. 1-4, 2023.

<http://www.cloud-conf.net/icdm2023/index.html>



# SMU CORE CURRICULUM

The SMU Core Curriculum is a holistic programme that initiates undergraduates into a journey toward intellectual dynamism and self-actualisation. It is based on the following 3 pillars:



## Capabilities

Equips students with 21<sup>st</sup> century skills necessary to thrive in an increasingly digitised and data-driven working environment. Students will also complete an internship, either locally or overseas.



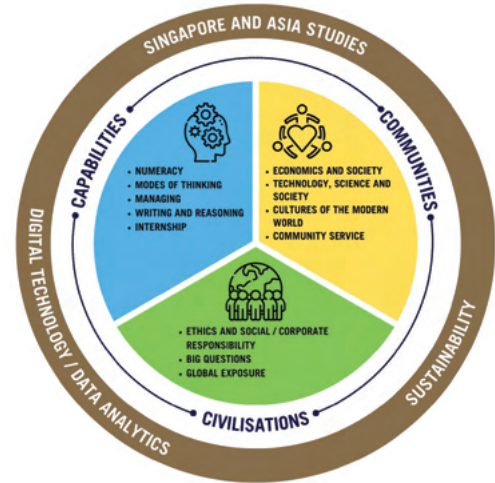
## Communities

Trains students to understand the economic, technological, and cultural systems that shape our interactions with our communities. Students will also complete a community service project, either locally or overseas.



## Civilisations

Immerses students in the fundamental debates that cut across time and space, preparing them to engage in critical dialogue between multiple and competing traditions of thought and problem-solving. Students will also complete a global exposure experience.



## ADDITIONAL GRADUATION REQUIREMENTS

Digital Technology/Data Analytics (D/D), Sustainability, and Singapore and Asia Studies. Students can meet each graduation requirement by enrolling in specific courses, or, in select Schools, through programme or major core courses where the relevant content has already been integrated to meet the graduation requirement.

## INTEGRATED POSTGRADUATE PROGRAMMES

Integrated Postgraduate Programmes allow promising undergraduates at our school to pursue a Bachelor's and a Master's degree within a shorter period of time. We offer the following fast-tracks for SCIS undergraduate programmes:

SMU-Carnegie Mellon  
Masters Programme

### OPTIONS INCLUDE:

Master of Computational  
Data Science  
Master of Science in  
Information Technology

SMU-University College  
London (UCL)

MSc Urban Spatial Science  
MSc Connected Environments  
MRes Urban Spatial Science

SMU-Master of IT in  
Business (MITB)

### TRACKS INCLUDE:

Analytics  
Artificial Intelligence  
Digital Transformation  
Financial Technology  
and Analytics

SMU-Master of  
Science in Computing (MSC)

### TRACKS INCLUDE:

Cybersecurity  
Data Science & Engineering  
Software & Cyber-Physical  
Systems

# MEET OUR ALUMNI

Since graduating from the School of Computing and Information Systems, Yihao has amassed over a decade of experience in the Intelligence Security domain earning recognition as a trusted expert sought after for sharing insights on managing cyber threats. He is currently working as a Lead Threat Intelligence Advisor at Google.



**LIM YIHAO**

Legal Threat Intelligence Advisor, Google (Singapore)

Recognised as an honoree in IMDA's 2023 SG Top 100 Women in Tech, Joanna has made significant contributions to the tech community. Her start-up Attribute Data is a data intelligence consultancy that empowers organisations to use data to derive strategic intelligence that provoke new perspectives and eliminate uncertainty in decision making. As a member of SMU's Alumni Founders Executive Committee, she actively mentors aspiring entrepreneurs from her alma mater. Joanna also serves as Principal and Portfolio Lead at Protege Ventures, Asia's first student venture capital fund established at SMU.



**JOANNA TEO**

Founder, Managing Director, Head of Data Intelligence, Attribute Data

Ayush currently oversees transformation and technology advisory (Across APAC market with a portfolio focus in Singapore and Indonesia), recognised for delivering growth and innovation for large-scale organisations. With his proven track record of delivering complex projects and building high-performing teams, Ayush has specialised in helping businesses leverage technology to achieve their strategic objectives for revenue growth and operational efficiency. He possesses a deep understanding of emerging technologies and a strong focus on delivering measurable business outcomes.



**AYUSH VIJ**

Delivery Director - Asia Pacific Region, Thoughtworks

After graduating with a degree in Information Systems, Nian Kai is working as a DevOps Engineer. At Visa, his work involves backend development and automation. He develops features and automates manual processes to ensure reliability and efficiency of the operations and infrastructure in Visa.



**TEO NIAN KAI**

DevOps Engineer, Visa

After earning his bachelor's degree in Information Systems from SMU, Geoffrey pursued a master's degree at Cornell University. Currently based in Seattle, he works as a Software Engineer at Meta. He has had a decade long experience working as a Software Engineer in the US Tech industry building innovative software solutions that drive business growth and enhance user experience.



**GEOFFREY GOH**

Software Engineer, Meta (USA)

Felice is working as a Software Engineer at ByteDance after graduating with a degree in Computer Science from SMU. As part of the payments team, Felice helps build secure and efficient systems to facilitate seamless e-commerce transactions on TikTok Shop.



**FELICE PNG**

Software Engineer, ByteDance

Since graduating with a degree in Information Systems specialising in FinTech, Gracia has built a career in business analysis and digital transformation. She has led projects on blockchain-based trade platforms and AI-driven analytics. Now a Senior Business Analyst at AvePoint, she leverages digital tools to streamline operations and boost organisational efficiency.



**GRACIA KWAN YUWONO**

Senior Business Analyst, AvePoint



# THE SCHOLARSHIPS SCIS PROVIDE

SMU SCIS places strong emphasis on a holistic educational approach for all its students where social and ethical responsibilities are as important as academic excellence.



Scan the QR Code  
for the full list of  
scholarships

OPEN FOR  
APPLICATION FOR  
BOTH FRESHMEN  
AND SENIORS!

MANY PRESTIGIOUS SCHOLARSHIPS THAT  
ACKNOWLEDGE YOUR ABILITY AND TENACITY

**SMU Global Impact Scholarship Programme**  
**Lee Kong Chian Scholars' Programme**  
**SMU Merit Scholarship Programme**  
**SMU SCIS Achievements Scholarship**

**Ng Kai Wa Scholarship**  
**SMU Steven Miller Scholarship**  
**Alvin Poh Endowed Scholarship**  
**Red Hat Scholarship**

"As an LKC scholar, I'm grateful for the unique opportunities available to me, such as heading overseas community projects and participating in leadership workshops. The scholarship is incredibly comprehensive, covering not only my school fees but also subsidising future overseas opportunities. In Year 2 or 3, I'm excited about the possibility of going on exchange at London School of Economics to pursue modules related to a second major in Digital Business."



**LEE JIN RAE**

BSc (Software Engineering) student, Year 1  
Lee Kong Chian Scholar

"SMU SCIS gave me an engaging space to learn from my professors and peers. With helpful teaching faculty and meaningful programmes such as UResearch, I was given ample opportunities to learn from my professors in a safe space. The seminar style classes encouraged active participation during lessons, making learning engaging and meaningful. Most importantly, the application-based learning style allowed me to apply the knowledge I learnt on fun projects, preparing me for the working world."



**TAY HUAN LIN**

Software Engineer, Google,  
SCIS Alumnus, Graduating Class of 2023  
SMU Merit Scholar



EMPLOYERS  
PREFER  
**SMU**  
GRADUATES



# IT ALL ADDS UP **SMU**

#1



**MOST FLEXIBLE  
CORE CURRICULUM  
IN SG**

All students across the University get to experience our Core Curriculum - we don't restrict by major or programme! Plus, we've built in so many courses that you can pursue what you're most interested in.

#1



**GRADUATES**

We produce future-ready, versatile and articulate problem-solvers. That's why our grads get more offers, better jobs and higher salaries.



**1<sup>ST</sup>**  
TO GUARANTEE A  
2<sup>ND</sup> MAJOR FOR  
ALL STUDENTS

Know a good deal when you see one. Gain more, get better equipped, be versatile and highly sought after.

**1<sup>ST</sup>**  
LOCAL UNI WITH GUARANTEED  
GLOBAL EXPERIENCE FOR  
ALL STUDENTS



Because this is what you need to help you grow as a person. And because we know this is what you want!

**IS #1**

*again!*



**1<sup>ST</sup>**  
CITY  
CAMPUS IN  
SINGAPORE



The downtown vibe is great. But when you're so close to future employers, it's more than a foot through the door.

**1<sup>ST</sup>**  
LOCAL UNI TO PIONEER AN  
INTERDISCIPLINARY AND  
INTEGRATIVE CURRICULUM



It's our broad-based, flexible and rigorous curriculum, as well as interdisciplinary majors and programmes that transform you. And it all started here!

# WITH 500+ DOUBLE MAJOR COMBINATIONS, WHO NEEDS A MINOR?

## SCHOOL OF ACCOUNTANCY

- Accounting
- Accounting with track in Sustainability Accounting **NEW**
- Accounting Data and Analytics (to be taken as a 2nd major)
- Financial Forensics (to be taken as a 2nd major)

## LEE KONG CHIAN SCHOOL OF BUSINESS

- Communication Management
- Communication Management with track in Data, Design, & Communication
- Finance
- Finance with track in Finance Analytics
- Finance with track in Real Estate
- Finance with track in Wealth Management
- Finance with track in International Trading
- Finance with track in Banking
- Finance with track in Sustainable Finance **NEW**
- Finance with Private Banking Work-Study Degree
- Innovation & Entrepreneurship
- Marketing
- Marketing with track in Marketing Analytics
- Operations Management
- Operations Management with track in Operations Analytics
- Operations Management with track in Maritime Business & Operations
- Organisational Behaviour & Human Resources
- Quantitative Finance
- Strategic Management
- Digital Business (to be taken as a 2nd major)
- Sustainability Management (to be taken as a 2nd major)

## SCHOOL OF COMPUTING AND INFORMATION SYSTEMS

### BSc (Information Systems) Degree Information Systems Major with:

#### Single track options:

- Business Analytics
- Product Development
- Financial Technology
- Smart-City Management & Technology

#### Dual tracks options:

- Business Analytics and Product Development
- Business Analytics and Financial Technology
- Product Development and Financial Technology
- Product Development and Smart-City Management & Technology
- Smart-City Management & Technology and Business Analytics
- Smart-City Management & Technology and Financial Technology

### BSc (Computer Science) Degree IT Solution Development Major with:

#### Single track options:

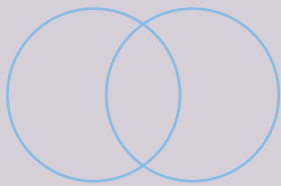
- Artificial Intelligence
- Cybersecurity
- Software Systems

#### Dual tracks options:

- Artificial Intelligence and Cybersecurity
- Artificial Intelligence and Software Systems
- Cybersecurity and Software Systems



Enjoy the best of all worlds by taking majors across the entire university. You can, because all students are guaranteed a 2nd major when they enter SMU. It's an edge over your peers as you'll graduate better equipped, more versatile and capable!



**OVER 500  
DOUBLE MAJOR  
AND DOUBLE DEGREE  
COMBINATIONS**



**GUARANTEED  
2<sup>ND</sup> MAJOR**

### **BSc (Computing & Law) Degree**

### **BSc (Software Engineering) Degree**

#### **Second Majors**

For BSc (Information Systems), BSc (Computing & Law) and BSc (Software Engineering) students only:

#### **Computing Studies**

- Artificial Intelligence
- Cybersecurity
- Software Systems

For BSc (Information Systems), BSc (Computer Science), BSc (Computing & Law) and BSc (Software Engineering) students only:

- IT Solution Management

For BSc (Computer Science), BSc (Computing & Law) and BSc (Software Engineering) students only:

#### **Technology for Business Solutions**

- Business Analytics
- Financial Technology
- Product Development
- Smart-City Management and Technology

For students from other schools within SMU

- Technology for Business

## **SCHOOL OF ECONOMICS**

- Economics
- Economics with track in Quantitative Economics
- Economics with track in Real Estate
- Actuarial Science (to be taken as a 2nd major)
- Actuarial Science with Industry Integration Track (to be taken as a 2nd major)
- Health Economics & Management (to be taken as a 2nd major)
- Data Science and Analytics (to be taken as a 2nd major) **NEW**

## **YONG PUNG HOW SCHOOL OF LAW**

- Law
- Legal Studies (2nd major for non-Law students)

## **SCHOOL OF SOCIAL SCIENCES**

- Politics, Law and Economics (to be taken as a 1st major only)
- Political Science
- Psychology
- Sociology
- Global Asia (to be taken as a 2nd major)
- Public Policy and Public Management (to be taken as a 2nd major)
- Sustainable Societies (to be taken as a 2nd major) **NEW**

## **COLLEGE OF INTEGRATIVE STUDIES**

- Deferred Declaration of Degree **NEW**
- Individualised Major **NEW**
- Individualised Second Major



**School of Computing and Information Systems**

**80 Stamford Road  
Singapore 178902  
Tel: (65) 6808 7960  
Enquiries: [scis\\_ugrad@smu.edu.sg](mailto:scis_ugrad@smu.edu.sg)**



For more information on our curriculum,  
please visit our website:  
**[computing.smu.edu.sg/undergraduate](https://computing.smu.edu.sg/undergraduate)**