

# NUS COMPUTING INDUSTRY NEWSLETTER

ISSUE NO #38 | AUGUST 2025

## Capgemini: Where Technology Meets Purpose

Let's welcome Capgemini, a global leader in consulting, technology services, and digital transformation, as an iConnect industry partner! Hear directly from Capgemini:

### Step Into the Future with Capgemini Invent

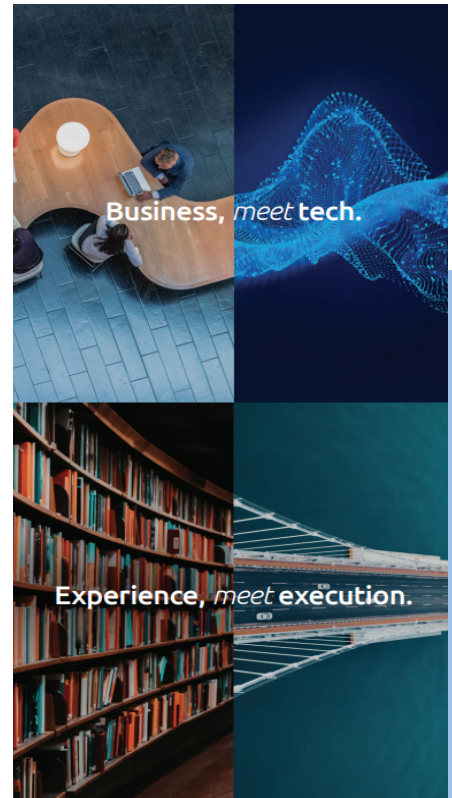
Are you ready to shape what's next in technology and business? At Capgemini Invent, we don't just keep up with the future—we help create it.

### Who We Are

Capgemini has been a trusted transformation partner in Singapore since 1996, with global roots dating back to France in 1967. Today, we're a powerhouse of 275,000+ tech experts, including 60,000 engineers and 16,000 consultants who bridge strategy, design, data analytics, AI/ML and engineering. This blend of creativity and technical expertise makes us one of a kind in the market.

### What We Do

At Capgemini Invent, we help organizations shape the future by combining strategy, technology, data science, and creative design. Our consultants work across a wide range of focus areas—from deep technology (via Cambridge Consultants, part of Capgemini Invent), innovation strategy, and sustainable growth, to brand, product, service, and experience design (through frog, also part of Capgemini Invent), as well as AI/GenAI acceleration, smart factories, and intelligent industries. We collaborate with a diverse portfolio of clients—from global banks and luxury brands to governments and industrial giants—helping them connect business, technology, and sustainability in powerful new ways. At the forefront of Data and AI innovation, our mission is to guide clients across industries through holistic AI transformation journeys. Rather than focusing on isolated use cases, we drive end-to-end transformation—spanning strategy, people, processes, and technology. Our expertise extends beyond generative AI to include Agentic AI, graph-based models, optimization algorithms, recommender systems, and more. By integrating cutting-edge solutions with deep industry knowledge, we empower businesses to unlock the full potential of AI and reshape the way they operate. With Gen-AI, we're not just transforming processes—we're bridging the physical and digital worlds by designing intelligent operations and enabling intelligent industries.



### Why It Matters to You

As a computing graduate, you'll find a place where technology meets purpose. Whether you're passionate about AI, engineering, data, or digital experiences, Capgemini Invent is where your ideas can turn into real impact—for businesses, society, and the planet.

## OUR MOTTO?

"Get the future you want."

And we're here to help you build it—  
your way.

Capgemini  invent

# RESEARCH SPOTLIGHT

Generate\*

## Up-to-date AI Without the Side Effects: How AlphaEdit Could Change the Way We Edit Knowledge in Language Models

In a world increasingly reliant on artificial intelligence (AI), one of the most quietly vexing challenges has remained: **how do you teach a large language model (LLM) something new without it forgetting or distorting what it already knows?**



**Featured Faculty**  
Chua Tat Seng  
Professor

**AlphaEdit**, a breakthrough approach developed by Professor Chua Tat Seng in collaboration with researchers from the University of Science and Technology of China. Their paper, entitled “AlphaEdit: Null-Space Constrained Knowledge Editing for Language Models”, was recently awarded the Outstanding Paper Award at the International Conference on Learning Representations (ICLR 2025). AlphaEdit focuses on a **mathematically grounded solution** to knowledge editing, proposes a surprisingly elegant and efficient way to update language models without undermining their existing understanding. The implications of AlphaEdit extend far beyond academic benchmarks. In healthcare, it can help ensure that updates about new treatment protocols or drug interactions don’t interfere with established best practices when interpreting medical records or recommending treatments. In law, where case law and statutes evolve continuously, AlphaEdit could allow AI assistants to remain current without rewriting or corrupting their foundational legal knowledge.

Read more: <https://www.comp.nus.edu.sg/features/ai-without-side-effects-alphaedit/>

## Waterfall: A New Watermarking Method to Protect Copyright in the World of LLMs

In December 2023, the New York Times brought a landmark lawsuit against ChatGPT maker Open AI and its biggest backer Microsoft, alleging that they had used millions of its articles without permission to train the massively popular chatbot.

To help address data provenance issues such as IP protection, GLOW.AI’s researchers, led by Associate Professor Bryan Low, have invented a special text watermarking method called **Waterfall**, short for **Watermarking Framework Applying Large Language Models**. Waterfall uses several novel techniques, including paraphrasing and n-gram watermarking, making it **highly effective for robust verification, offering better scalability, lower computational cost, and greater versatility** compared to existing methods.

Read more: <https://www.comp.nus.edu.sg/features/watermarking-method-copyright/>



**Featured Faculty**  
Bryan Low  
Associate Professor



# Fostering Collaboration & Strengthening Ties: A Visit from Nagoya University

NUS Computing recently hosted a delegation of faculty and students from Nagoya University's School of Informatics during their summer study abroad program. This visit served as a valuable platform for academic exchange and cross-cultural learning. The program began with introductions and a research overview by Professor He Bingsheng, Vice Dean (Research). Guests attended presentations by PhD student Ms. Wang Qian ("LLM as a Judge") and Dr. Owen Hu ("Assistive Augmentations"), highlighting the School's innovative research. Associate Professor Ng Teck Khim, Vice Dean (Industry Relations), also shared insights into academic offerings and industry collaborations.

The visit concluded with a tour of the School's facilities and labs, showcasing our vibrant research environment. NUS Computing looks forward to strengthening ties and exploring future collaborations with Nagoya University.



## Exploring AI and Creativity with Zhejiang University

As part of a continued effort to foster international academic connections, NUS Computing hosted a delegation from Zhejiang University during their recent visit to Singapore. A highlight of the session was a research presentation by Associate Professor Wang Ye titled "Speech and Music AI: Connecting the Dots of AI and Human Potential", which explored how artificial intelligence can enhance and connect with human creativity through speech and music. The visit offered a meaningful platform for academic exchange and deeper research engagement between both institutions.



Tech Innovations at Makers Lab



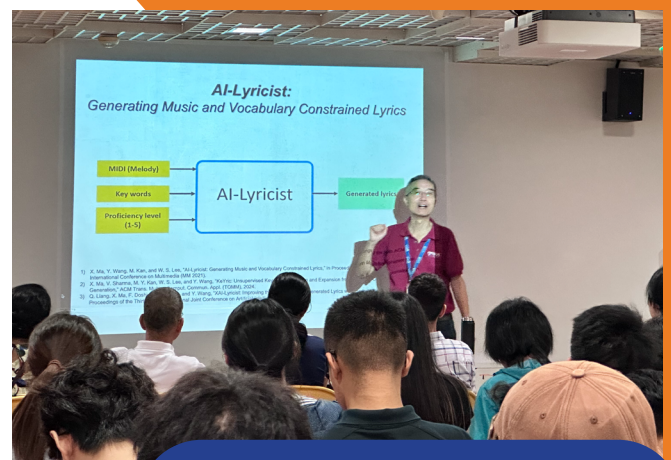
A peek into programming labs



Visiting the Computing Gallery



Enjoying lunch



Research presentation on speech and music AI by A/P Wang Ye

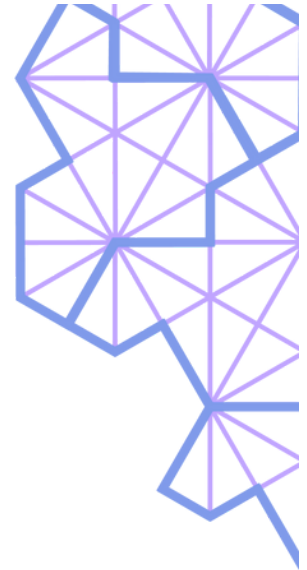
# Upcoming Talks for Students



## Street·o·lo·gy

[ stree-tol-uh-jee ]    *noun*

### Jane Street's Guide To Recruiting Effectively



Jane Street is hosting a info session. We will share insights on navigating the recruiting process. We'll share practical advice and best practices for managing timelines, deadlines, and offers to help you approach recruiting with confidence.

While this session will be especially beneficial for underclassmen beginning their internship search, the guidance applies to anyone pursuing internships or full-time positions. Join us to gain useful perspectives that can make a difference in your approach to recruiting.

**Who:**

Students enrolled in NUS. All majors and class years are welcome to register.

**When:**

Monday, 18 Aug, 2025  
4:00 pm SGT

**Where:**

Oncampus @ NUS



**Sign up here by:**

**Thursday, 14 August if you're interested! We will confirm attendees by EOD on Friday, 15 August.**

If you have any questions, please reach out to [hkg-connect@janestreet.com](mailto:hkg-connect@janestreet.com)

Jane Street is a global trading firm with offices in New York, London, Hong Kong, Singapore, and Amsterdam. Our approach is rooted in technology and rigorous quantitative analysis, but our success is driven by our people.



# Upcoming Talks for Students



## Join Jane Street events in Singapore!

Interested in learning more about Jane Street? Students of all backgrounds and tenures are encouraged to attend - you don't need experience in finance to work at Jane Street. We hope to meet intellectually curious problem solvers!

### Jane Street's Game Night in Singapore

For current university students in Singapore  
Wednesday, 27 August @ 6:30-8:30pm SGT  
Singapore CBD

[Sign up here](#) by Monday, 25 August if you're interested! We will confirm the attendees by EOD on Tuesday, 26 August.



### Learn about Strategy and Product at Jane Street

For current NUS students  
Thursday, 28 August @ 4:00pm SGT  
On-campus @ NUS

[Sign up here](#) by Tuesday, August 26 if you're interested! We will confirm attendees by EOD on Wednesday, August 27.



Questions? Reach out to [hkg-connect@janestreet.com](mailto:hkg-connect@janestreet.com)

Jane Street is a global trading firm with offices in New York, London, Hong Kong, Singapore, and Amsterdam. Our approach is rooted in technology and rigorous quantitative analysis, but our success is driven by our people.

# Calling All Students: NUS SoC Career Fair August 2025

**COMPUTING**

# CAREER FAIR

**COM3 Multipurpose Hall**

**STEP INTO YOUR FUTURE**

**20-21 AUGUST, 2025**  
**12:00 PM - 5:00 PM**

**PREPARE FOR CAREER FAIR:**  
**WALK IN RESUME CLINIC**

**13 Aug 9am-12pm**   **15 Aug 2pm-5pm**  
**Cerebro@SoC**

**SoC Industry Updates**

**Join our Telegram Channel for more Updates!**

If you are looking for internships, full-time roles, or just exploring what's out there, join our upcoming Career Fair! This is your chance to chat directly with recruiters and learn more about companies across various sectors.



# Capstone Projects Proposal Schedule

## Master of Computing – General Track

This capstone internship provides an opportunity for students to work on solving problems beyond the formal classroom setting.

4 months individual internship with a company

Company submission period: Nov 2024 - Mar 2025

Internship period: **Mid-May - Mid-Sep 2025**

Contact: [gt-capst@comp.nus.edu.sg](mailto:gt-capst@comp.nus.edu.sg)

## Master of Science in Digital Financial Technology (MSc DFinTech)

The MSc DFinTech Capstone internship requires students to have experiential learning in academic research, translational research or software development.

4-6 months individual internship with a company

Company submission period: Nov 2024 - Mar 2025

Internship period: **Mid May - Mid-Oct/Nov 2025**

Contact: [msc-dft-capstone@comp.nus.edu.sg](mailto:msc-dft-capstone@comp.nus.edu.sg)

## Master of Science in Business Analytics (MSBA)

The industry-linked professional consulting capstone project requires students to analyse and provide solutions to today's real-world business analytics problems.

4 months individual project with a company

Company submission period: Jan - Apr 2025

Project period: **May - Aug 2025**

Contact: [MSBA@nus.edu.sg](mailto:MSBA@nus.edu.sg)

## Business Analytics (Undergraduate)

Students are expected to solve a real-world business analytics project proposed by a company which could include (but not limited to): data analytics, machine learning, design and development of interactive and performance dashboard, and data mining.

3 months group project with a company. Work to be done in NUS

Company submission period: Jun - Jul 2025  
Nov - Dec 2025

Project period: **Aug - Nov 2025**  
Jan - April 2025

Contact: [shalinda@comp.nus.edu.sg](mailto:shalinda@comp.nus.edu.sg)

## Business Artificial Intelligence Systems (Undergraduate)

Students are required to develop a complete AI solution incorporating elements of data engineering, machine learning modelling, and software engineering to address a real-world problem. They will apply modern best practices, such as Agile methodology, DataOps, and MLOps, throughout the solutioning process.

3 months group project developing business AI system for company. Work to be done in NUS.

Company submission period: Jun - Jul 2025  
Nov - Dec 2025

Project period: **Aug - Nov 2025**  
Jan - April 2025

Contact: [tanwk@comp.nus.edu.sg](mailto:tanwk@comp.nus.edu.sg) (Aug-Nov term); [hsianghui@nus.edu.sg](mailto:hsianghui@nus.edu.sg) (Jan-April term)

## Engage **NUS Computing** to Run Masterclasses for Your Company

From emerging technologies to digital transformation, our customised masterclasses **inspire**, **equip** and **empower** your team to thrive in the future of work.



Learn more about our masterclass series

Follow us on social media



Ignite Curiosity



Drive Innovation



Exposure to Cutting-Edge Tech

Contact us for more details

[soc-ace@nus.edu.sg](mailto:soc-ace@nus.edu.sg)



## Partner with Us

Join our exclusive industry programmes to connect with students and explore cutting-edge research collaboration.

### 01 iConnect Membership

#### Priority Access

Have priority arrangements at NUS School of Computing career fairs.

#### Student Outreach

Reach out to computing students through various media (e.g interactive TVs placed at strategic locations in the school, online platforms and social media).

#### Seminars

Share insights and career opportunities through seminars at NUS School of Computing.



### 02 Research Membership

#### Knowledge Sessions

Invitations to exclusive talks on emerging themes in technology, keeping your organisation informed and ahead.

#### Technical Workshops

Upskill your team: access to customised technical workshops designed and delivered by our experts.

#### Co-Hosted Workshops

Opportunities to collaborate with SoC on tailored half-day workshops, exchanging research ideas and partnership possibilities.

**iConnect**  
SoC Industry Relations



iConnect



Research

*Find Out More*