

INDUSTRY NEWSLETTER

ISSUE NO #21 | MARCH 2024

Highlights

Meet TikTok on 14th March to discover LLM Agents in Action!



Large language model (LLM) plays an integral part in TikTok's day-to-day operations and it is essential for engineers working with the company to know how to make the best of it.

To give students an idea of how LLM is used to its full potential, TikTok is sending two Machine Learning Engineers and NUS alumni, Kai LUO and Qiuyu ZHU, to the School of Computing to have a chat with students.

During this exclusive event, students will gain firsthand knowledge about the practical challenges and solutions associated with LLM in the fast-paced environment of TikTok. This is a unique chance for those interested in LLM or curious about TikTok's work culture to engage directly with industry experts.

Don't miss this valuable opportunity to connect with professionals and deepen your understanding of LLM applications in a dynamic corporate setting.

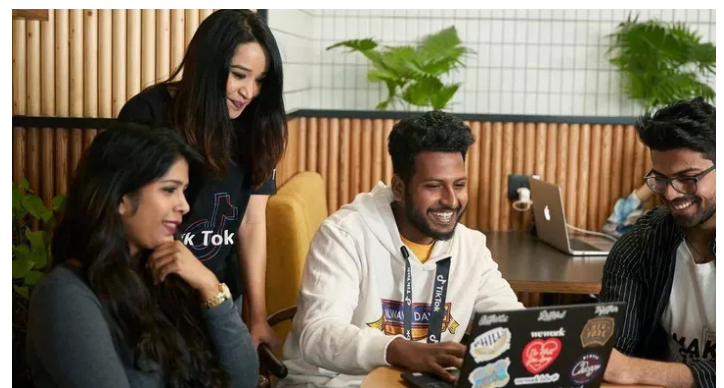
Mark your calendars:

Date: 14 March 2024

Time: 1pm

Venue: Cerebro @ SoC (COM1-02-05)

Interested students should stay tuned to your inboxes for the registration link!



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 2023 - Mar 2024**

Internship period: Mid-May - Mid-Sept 2024

Contact: 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 2023 - April 2024**

Internship period: May - Sept/ Nov 2024

Contact: msc-dft@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 - April 2024**

Project period: May - Aug 2024

Contact: 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: June - July 2024
Nov - Dec 2024

Project period: Aug - Nov 2024
Jan - April 2025

Contact: shalinda@comp.nus.edu.sg

Information Systems (Undergraduate)

Students are required to develop a business information system by completing an entire Systems Development Life Cycle (SDLC) which includes gathering requirements, analysing requirements, designing the system (both software and hardware), implementing and deploying the system.

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

Company submission period: Nov - Dec 2024

Project period: Jan - April 2025
Aug - Nov 2025

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



Join HDB on 20th March to find out about Cybersecurity!



Cybersecurity is critically important to the Housing & Development Board (HDB) of Singapore. As the agency responsible for the nation's public housing, HDB manages a wealth of sensitive information, infrastructure, and digital services that are integral to housing policies and operations.

The importance of cybersecurity for HDB can be highlighted in the following ways:

- **Protection of Sensitive Information:** HDB handles personal data for a large portion of the Singaporean population. Cybersecurity measures ensure that this data is shielded from unauthorised access, which could lead to identity theft, financial fraud, and other malicious activities.
- **Maintaining Public Trust:** As a government entity, HDB must maintain the trust of the public. Robust cybersecurity practices are necessary to prevent data breaches, which can undermine the confidence that citizens have in HDB's ability to protect their information.
- **Compliance with Regulations:** HDB must comply with Government Standards and Policies and other relevant regulations. This involves implementing cybersecurity measures to protect and secure HDB digital services so customers can transact with confidence and peace of mind.
- **Secure Digital Services:** With HDB increasingly providing digital services to its customers, such as e-services for applications, payments, and other transactions, it is crucial to ensure these platforms are secure against cyber threats.

HDB is coming to the School of Computing (SoC) to further explain the cybersecurity landscape to students. During the talk, HDB is expected to also cover several key topics:

- Secure Coding
- Productivity Tools in Secure Coding
- Digital Service Security
- Career Insights at HDB



The visit from HDB to SoC is a valuable opportunity for students interested in cybersecurity to learn from a key government agency that deals with large-scale housing projects and vast amounts of data and an intricate network of systems. It's a unique chance to understand the real-world applications of cybersecurity principles and how they contribute to the broader goal of national housing security and public service excellence.

Mark your calendars:

Date: 20th March 2024

Time: 1pm

Venue: Cerebro @ SoC (COM1-02-05)

Students should keep an eye out on your emails for the registration links!

Connect with SAP on 22nd March to find out how AI will affect our future!



Artificial Intelligence is a hot topic across the world, many are curious how AI would affect our lives especially when it comes to our jobs. To address the questions, Head of Global SAP Labs Network, SVP, Dr Clas Neumann is coming to the School of Computing to share with students.

Titled Artificial Intelligence – Generate the Future, Dr Neumann will cover several aspects:

- The origins, history, and major milestones of AI development.
- The usage of AI in industries, including healthcare, gaming and entertainment, autonomous driving, marketing, and more.
- The AI development around the globe and the introduction of AI practice from the

leading countries like the US and China.

- While AI has brought convenience and increased productivity to human life, there are some risks we need to be aware of, including bias and fairness, ethical issues, AI 'Hallucination,' privacy and security, etc.
- Applying the benefits of AI to enterprise applications is an important direction. With 50+ years of experience in the software industry, SAP has a very clear and strong AI strategy to integrate new AI features into its portfolio.
- Looking ahead, AI will be further developed in the areas of Generative AI, Responsible AI, and Sustainable AI – where AI will open endless opportunities for the younger generation.

The event details are as follows:

Date: 22 March 2024

Time: 11.00 am

Venue: Cerebro @ SoC (COM1-02-05)

Students interested in attending the event should look out for the registration link in your inboxes.



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```
index.js | index.html  
  
app.get('/', (req, res) => {  
  res.sendFile(_dirname + '/index.html');  
});  
  
app.post('/', (req, res) => {  
  const crypto = req.body.crypto;  
  const fiat = req.body.fiat;  
  
  const baseUrl = "https://api2.bitcoinaverage.com/indices/global/ticker/";  
  const finalURL = baseUrl + crypto + fiat;  
  request(finalURL, (error, response, body) => {  
    const data = JSON.parse(body);  
    const price = data.last;  
  
    const currentDate = data.display_timestamp;  
    res.write("<p>The current date is " + currentDate + "</p>");  
    res.write("<div>The current price of " + crypto + " is " + price + fiat + "</div>");  
    res.send("<div>The current price of bitcoin is " + price + "</div>");  
    res.send();  
  });  
});
```

 **Connect**
SoC Industry Relations

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