

TOH De Kai

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EDUCATION

National University of Singapore (NUS)

Aug 2021 - May 2025

Bachelor of Computing, Information Systems - CAP: 4.05/5.0

- Student Clubs & Activities: Student Developer @ Eusoff Hackers, NUS FinTech Society, Eusoffworks IT

WORK EXPERIENCE

Software Engineer Intern, Kovalee | Paris, France

Feb 2024 - Jul 2024

- Spearheaded the development of a partner dashboard, collaborating closely with the data team to integrate Snowflake queries into API endpoints, and built the dashboard using Astro, React, and Tailwind CSS.
- Refactored API endpoints to use functions from the core library and migrated from a monolithic server to a microservice architecture.
- Implemented UI and created reusable components for multiple tools using React, TypeScript, and TailwindCSS.
- Developed hotfixes for urgent issues, such as updating the codebase to use new API endpoints when an external API was deprecated, and resolving production downtime.
- Resolved user-reported bugs, enhancing system stability and user satisfaction.
- Created onboarding guide and checklist for new developers, streamlining the onboarding process and saving time for software engineers.
- Compiled a document of common bugs and their fixes, reducing troubleshooting time and enhancing productivity.
- Implemented and deployed cron jobs and web services on Render.

Software Engineer Intern, GovTech, | Singapore

May 2022 - Jan 2023

- Led Project Latios, employing Python, FastAPI, and DynamoDB, to generate trackable URLs with insightful data like click-through rates.
- Collaborated with a team of 2 engineers to develop a personalized newsletter system, utilized by multiple government agencies. Leveraged AWS technologies, Python, and MongoDB for seamless implementation.
- Orchestrated automated web crawling across 20+ news sites daily by building Scrapy spiders to crawl news headlines and articles and streamlined article processing into a uniform format using NLP techniques like lemmatization, tokenization tagging, and stopword removal.
- Built REST APIs using FastAPI, integrating data from DynamoDB, to create a tailored EDM editor essential for internal teams.

Product Development Intern, Skilio | Singapore

Apr 2021 - Jul 2021

- Created a landing page using Figma and Elementor, combining design and development expertise.
- Spearheaded the redesign of a web app, resulting in a remarkable 1000+ new sign-ups.
- Engaged in numerous user interviews and usability tests to extract insights for product enhancement.

PROJECTS

HDB Resale Transaction Visualisation ([Github Link](#))

May 2023

- The project aims to help people make meaningful decisions regarding HDB transaction prices by providing a simple and easy way to compare and filter transactions and visualise the data.
- Built using Python and libraries like pandas, NumPy, Streamlit and deployed using Streamlit Cloud.

SKILLS

Languages: Python, Java, SQL, HTML/CSS, TypeScript

Technologies: ReactJS, Node.js, Express.js, Bootstrap, Tailwind CSS, Astro

Tools & Platforms: AWS, PostgreSQL, MongoDB, Firebase, Next.js, Streamlit

ACHIEVEMENTS

- JP Morgan Code For Good 2023 - Finalist
- GovTech CodeFiesta Hackathon 2021, Shopee Product & Design Challenge 2021, NUS Greyhats CTF 2021, NCS Thinkathon 2022, Shopee Code League 2022, NUS Hack For Good 2022, NUS Hack For Good 2023 - Participant