

TAN YUE YANG, KANE

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EDUCATION

Nanyang Technological University (NTU) **Aug 2021 – Present**
Bachelor of Engineering (Computer Science) & Bachelor of Business (Business Analytics) **Expected Graduation:**
Technologies: **May 2025**
Python, R, C, C++, Java, SQL, MongoDB, DynamoDB, HTML, CSS, JavaScript, Vue.js, React.js, Node.js, React Native, AWS, Firebase, Google Cloud

WORK EXPERIENCE

Grab, Software Engineer (Intern) **Sept 2023 – Present**

- Spearheaded the implementation of long needed features in the fleet management system as the only software engineer in the GrabRentals team.
- Decoupled poorly linked systems to improve the workflow of fleet movement in Deluge script, JavaScript and Node.js.

Thales Group, Software Engineer (Intern) **May – Aug 2023**

- Implemented web app with HTML and D3.js to visualize JSON data to provide insights for higher level management.
- Engineered new features for proprietary applications in C++ and Python that processes XML files stored in e-sim chips.
- Performed static code analysis with external software to refactor legacy coding practices and utilized profiling tools to increase code efficiency.

ITLink Business Solutions, Technical Consultant (Intern) **May– Jul 2022**

- Developed and optimized databases using TM1 for client usage, ensuring optimal performance and reliability.
- Utilized IBM TM1 Planning Analytics software to generate highly effective Microsoft Excel sheets, resulting in improved data analysis and decision-making capabilities for clients.
- Spearheaded the integration of the use of Python for data analytics and visualization via TM1PY into the TM1 software.
- Pioneered the implementation of version control with Git for TM1 to improve workflows in the company.

Codigo SG, Project Management (Intern) **Mar – Jul 2021**

- Managed multiple projects for the development of functional IOS and Android applications, as well as websites, ensuring timely delivery of high-quality products to clients.
- Led teams of developers and designers, distributing workload optimally to increase performance and productivity.

ACADEMIC PROJECTS

SummaIze (Atlas Madness: MongoDB on Google Cloud) **Jun – Jul 2023**

- Developed a dynamic Web Application leveraging Next.js, Google Cloud (GCD), and MongoDB to optimize student learning processes, enhancing efficiency and accessibility.
- Integrated OCR from Document AI (GCD) and Speech to Text (GCD), to seamlessly convert PDF lecture notes and Video lectures into a consolidated notes database.
- Implemented an advanced summarization feature utilizing OpenAI, generating concise summaries and flash cards.

Ascendo (DSTA BrainHack CODE_EXP Hackathon) **Jun 2023**

- Created an interactive mobile app, improving workplace productivity by gamifying employee workplace experience.
- Engineered features including community spaces, task management, collaborative games, virtual avatar with pet companion, AI-assisted chatbot and a progression focused user profile.
- Implemented using React Native and AWS (Amplify, API Gateway, Lambda, S3, DynamoDB, Cognito) as a Microservice Architecture which subsequently secured us a Finalist position amongst over 600 participants.

HomelyHub (<https://sc2006-project-ef522.firebaseio.com/>) **Jan – Apr 2023**

- Designed a Web Application to facilitate sales of HDB flats with HTML, CSS, and Vue.js.
- Integrated price comparison feature, recommendation system and price prediction for similar listings.
- Leveraged Firebase database and Firebase hosting to ensure optimal performance and reliability of the application.

AWARDS & COMPETITIONS

Morgan Stanley Tech X Challenge – 1st Place **Aug 2023**
DSTA BrainHack CODE_EXP Hackathon 2023 – Finalist (Top 25 / 100+ Teams) **Jun 2023**
SCSE TechFest Hackathon 2023 – Finalist (Top 10 / 100+ Teams) **Jan 2023**