Kenneth Gao

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EDUCATION

National University of Singapore — Singapore
Bachelor of Engineering in Computer Engineering, E-Scholars Programme

Hwa Chong Institution — Singapore
GCE A-Levels, 90RP with H3 Distinction

EXPERIENCE

Software Engineering Intern — Jan. 2024 – Present
NodeFlair — *Singapore*
- Interning under the web-app team, working with Ruby on Rails and React
- Created an internal UI library to ensure design consistency across web-app

Software Engineering / Machine Learning Intern — Nov. 2023 – Jan. 2024
xDATA, Home Team Science and Technology Agency (HTX) — *Singapore*
- Worked on Vertext, an in-house NLP tool serving 10+ government agencies
- Contributed to frontend redesign, enhancing visual appeal and improving UX
- Refactored codebase for cleaner implementation and reusable components
- Constructed knowledge graphs from unstructured text with GenAI to enhance retrieval augmented generation (RAG) and improve multi-hop QA performance

SSP Platoon Commander — Dec. 2022 – Nov. 2023
16C4I Bn, Singapore Armed Forces — *Singapore*
- Led a 20+ member platoon to maintain constant battalion operational readiness
- Automated admin chores such as duty scheduling, leading to increased efficiency

PROJECTS

treehouse | *React, AWS*
- Developed a full-stack web application for sharing community activities

Budgety | *React Native, Firebase*
- Developed a full-stack native application for tracking expenses and viewing insights

AWARDS

HTX's HacX! | *2nd Runner-up* — Nov. 2023
- Developed an application that utilises VGG16 and YOLOv8 to accelerate the tool accounting process for contractors entering secure facilities

SCS's Splash Awards | *1st Place* — Oct. 2023
- Developed a full-stack native application featuring a gamified way to learn about Singapore's culture

SUTD's What the Hack | *1st Place* — Aug. 2023
- Developed an emotion-recognition application leveraging upon LLMs

CloudHacks | *1st Place* — Aug. 2023
- Developed an articles-to-podcast application for news consumption

TECHNICAL SKILLS

Languages: JavaScript, Python, Ruby, C/C++, SQL (Postgres), HTML/CSS
Frameworks: React, React Native, Node.js, Flask, Django
Developer Tools: Git, Docker, AWS, Microsoft Azure, Google Cloud Platform, Firebase
Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch, LangChain