Kenneth Gao

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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 site

Programming Lead — Nov. 2023 – Present
CloudHacks 2024 — *Singapore*
- Led a team of 3 using Agile methodology to redesign and rebuild promotional website with the Nextjs framework, resulting in a 20% decrease in load time

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 - redesigned frontend with React to improve UX and refactored codebase to reuse components for cleaner implementation
- Constructed knowledge graphs from unstructured text with GenAI to enhance multi-hop question answering (QA) performance during retrieval augmented generation (RAG), leading to greater context precision

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 administrative chores such as duty scheduling, leading to increased efficiency

EDUCATION

National University of Singapore — Singapore
Bachelor of Engineering in Computer Engineering, E-Scholars Programme (3yrs BEng + 1yr MSc)

Hwa Chong Institution — Singapore
GCE A-Levels, 90RP (PCME) with H3 Physics Distinction

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 personalised news consumption

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

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