

# 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*

- Coordinating efforts to redesign and rebuild promotional website with Nextjs

### 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 with H3 Distinction*

## 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 personalised 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