

Kenneth Gao

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EXPERIENCE

Software Engineering Intern

Jan. 2024 – Present

NodeFlair - Tech Career Platform for Southeast Asia

Singapore

- NodeFlair is a startup that connects tech talents with job opportunities, streamlining the recruitment process
- Enhanced functionality of existing API for new services on the Ruby on Rails backend
- Created an internal UI library in React to ensure design consistency across site
- Utilized A/B testing methodology to optimize user experience, resulting in a 15% increase in click-through rate

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

Software Engineering / Machine Learning Intern

Nov. 2023 – Jan. 2024

xDATA, Home Team Science and Technology Agency (HTX)

Singapore

- 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
- Explored multi-agent LLMs to augment QA capabilities, leading to enhanced complex analysis performance
- Worked on Vertex, an in-house NLP tool serving 10+ government agencies - redesigned frontend with React to improve user experience and refactored codebase to reuse components for cleaner implementation
- Utilized Python with BeautifulSoup for web scraping and performed data cleaning using pandas and NumPy

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 via scripting, leading to time savings of over 60%

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

PROJECTS

treehouse | Full-stack web application for sharing community-wide activities, built with React and AWS

Budgety | Full-stack native application for tracking expenses and viewing insights, built with React Native and Firebase

AIded | Utilised VGG16 and YOLOv8 to detect anomalies in secure workplaces, accelerating the accounting process

HeritageHunt | Full-stack native application featuring a personalised and gamified way to learn about Singapore's culture

EmoSense | Tool that leverages speech recognition algorithms and LLMs to conduct real time sentiment analysis

SoundBytes | Full-stack web application for personalised news podcasts, built with OpenAI and Amazon Polly

AWARDS

Micron NUS-ISE BACC 2024 - 2nd Runner-up | **SCS's Splash Awards 2023 - 1st Place**

SUTD's What the Hack 2023 - 1st Place | **HTX's HacX! 2023 - 2nd Runner-up** | **CloudHacks 2023 - 1st Place**

TECHNICAL SKILLS

Languages: JavaScript, Python, Ruby, C/C++, SQL, PostgreSQL, 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