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

- Extended existing API on the Ruby on Rails backend to accommodate new services, elevating site capabilities
- Implemented parallel execution for automated tests, achieving a 50% reduction in CI test execution time
- Deployed programmic SEO strategies to automate the creation of SEO-optimised pages, increasing organic traffic
- Utilized A/B testing methodology to refine user experience, resulting in a 15% increase in click-through rate
- Maintained and upgraded functionalities of a Plasmo browser extention, facilitating smoother access to AI tools

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

xData builds data and AI products that enhances the Home Team's capabilities in internal and mission-based operations

- Utilised GenAI to automate the construction of knowledge graphs from unstructured text
- Leveraged knowledge graphs and vector databases 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 Vertext, 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

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

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

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, Ruby on Rails, Plasmo

Developer Tools: Git, Docker, AWS, Microsoft Azure, Google Cloud Platform, Firebase, Supabase, Neo4j

Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch, LangChain, ThreeJS