Kenneth Gao - Prospective Software Engineer

EXPERIENCE

Software Engineering Intern, NodeFlair — Jan 24 - Present
- Interning under the web-app team, working with Ruby on Rails and React
- Created an internal UI library to ensure design consistency across pages

SWE/ML Intern, xDATA, Home Team S&T Agency (HTX) — Nov 23 - Jan 24
- 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, 16C4I Bn, Singapore Armed Forces — Dec 22 - Nov 23
- Led a 20+ member platoon to maintain constant battalion operational readiness
- Automated admin chores such as duty scheduling, leading to increased efficiency

EDUCATION

Hwa Chong Institution — GCE A-Levels, PCME: 90/90RP
- Attained Distinction for H3 Semiconductor Physics and Devices (NTU)
- Received the HC Outstanding Student Award and HC Diploma with Distinction

AWARDS

HTX's HacX! 2023, 2nd Runner-up — Nov 23
- Developed a tool that leverages ML to identify irregularities in contractors' tools

SCS's Splash Awards 2023, 1st Place — Oct 23
- Developed HeritageHunt, a gamified way to learn about Singapore's culture

SUTD's What The Hack 2023, 1st Place — Aug 23
- Developed EmoSense, an emotion-recognition tool for people with Alexithymia

CloudHacks 2023, 1st Place — Aug 23
- Developed SoundByte, an articles-to-podcast application for news consumption

PROJECTS

Budgety | Full-stack native app for tracking expenses — React Native & GCP
treehouse | Full-stack web-app for sharing community activities — React & AWS

TECHNICAL SKILLS

Languages: JavaScript | TypeScript | Python | Ruby | C++ | GraphQL
Frameworks: React | Vite | React Native | Next.js | Node.js | Flask | Django
Developer Tools: Git | Github | Figma | GCP | Firebase | AWS | Docker
Libraries: NumPy | Pandas | Matplotlib | TensorFlow | PyTorch | LangChain

VOLUNTEERING

Programming Lead, CloudHacks 2024 — Nov 23 - Present
- Coordinating efforts to redesign and develop promotional website with Nextjs

Community Volunteer, MINDS MYG — Feb 23 - Present
- Sourced for sponsorships as part of the liaison team for MYG's annual camp

Peer Supporter @ Project Re:ground, Youth Corp SG — May 23 - Present
- Promote mental wellness through assisting in community activities