

Kenneth Gao

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EDUCATION

National University of Singapore <i>Bachelor of Engineering in Computer Engineering, E-Scholars Programme</i>	Singapore
Hwa Chong Institution <i>GCE A-Levels, 90RP with H3 Distinction</i>	Singapore

EXPERIENCE

Software Engineering Intern <i>NodeFlair</i> <ul style="list-style-type: none">Interning under the web-app team, working with Ruby on Rails and ReactCreated an internal UI library to ensure design consistency across web-app	Jan. 2024 – Present <i>Singapore</i>
Programming Lead <i>CloudHacks 2024</i> <ul style="list-style-type: none">Coordinating efforts to redesign and rebuild promotional website with Nextjs	Nov. 2023 – Present <i>Singapore</i>
Software Engineering / Machine Learning Intern <i>xDATA, Home Team Science and Technology Agency (HTX)</i> <ul style="list-style-type: none">Worked on Vertex, an in-house NLP tool serving 10+ government agencies - redesigned frontend with React to improve UX and refactored codebase to reuse components for cleaner implementationConstructed knowledge graphs from unstructured text with GenAI to enhance multi-hop QA performance during retrieval augmented generation (RAG)	Nov. 2023 – Jan. 2024 <i>Singapore</i>
SSP Platoon Commander <i>16C4I Bn, Singapore Armed Forces</i> <ul style="list-style-type: none">Led a 20+ member platoon to maintain constant battalion operational readinessAutomated admin chores such as duty scheduling, leading to increased efficiency	Dec. 2022 – Nov. 2023 <i>Singapore</i>

PROJECTS

<u>treehouse</u> <i>React, AWS</i> <ul style="list-style-type: none">Developed a full-stack web application for sharing community activities
<u>Budgety</u> <i>React Native, Firebase</i> <ul style="list-style-type: none">Developed a full-stack native application for tracking expenses and viewing insights

AWARDS

HTX's HacX! <i>2nd Runner-up</i> <ul style="list-style-type: none">Developed an application that utilises VGG16 and YOLOv8 to accelerate the tool accounting process for contractors entering secure facilities	Nov. 2023
SCS's Splash Awards <i>1st Place</i> <ul style="list-style-type: none">Developed a full-stack native application featuring a gamified way to learn about Singapore's culture	Oct. 2023
SUTD's What the Hack <i>1st Place</i> <ul style="list-style-type: none">Developed an emotion-recognition application leveraging upon LLMs	Aug. 2023
CloudHacks <i>1st Place</i> <ul style="list-style-type: none">Developed an articles-to-podcast application for personalised news consumption	Aug. 2023

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