

KUAH GENE QHEE

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EXPERIENCE

SPH MEDIA, STRAITS TIMES, DIGITAL GRAPHICS, *Frontend Engineer, Intern* May 2026 - Present

Tech Stack: Svelte, Sveltekit, ArchieML, Vue, Miscellaneous tools

- Developed user-facing news stories with strong visual storytelling, leveraging data analysis, visualisation, and digital graphics to create engaging and impactful journalism in a fast-paced newsroom environment.
- Projects: Coded custom components for proprietary package library, [ST x NLB Crossword](#), [P1 Registration](#)

GOOGLE DEVELOPER GROUP (NUS), *Backend Engineer*

Tech Stack: Python, FastAPI, Firebase, Postgresql, Aiven, Render, SQLAlchemy

Aug 2025 - Present

- Developing a volunteer management system and administrative analytics tool for Caring For Life, boosting management efficiency and streamlining volunteer processing.
- Implemented firebase authentication, database CRUD operations and schemas, and API endpoints with FastAPI.

THINKCODE SINGAPORE, *Associate Trainer*

Apr 2025 - Jan 2026

- Taught programming and robotics to children between ages of 8 to 16 in Python.
- Designed hands-on coding activities and debugging exercises in Python and robotics, helping students build problem-solving fundamentals through project-based learning

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Aug 2025 - May 2029 (Expected)

Bachelor of Computing in Computer Science

PROJECTS

Orbital 2026(Apollo) - Team Zouble, Huddle, *Software Engineer*

May 2026 - Present

Tech Stack: Next.js, TypeScript, Prisma ORM, Postgresql, Yjs, TipTap, StreamVideo, OpenAI

- Built an AI-enhanced collaboration platform that combines real-time video conferencing, collaborative document editing, task management, and contribution analytics to improve accountability and productivity in team-based projects.

Community Hackathon 2025 - BinGo, *Software and Hardware Engineer*

Jun 2025 - Jul 2025

Tech Stack: Svelte, Drizzle ORM, Embedded Systems, Arduino C

- Built core features of a web application to monitor and process real time soil moisture and temperature data transmitted from a custom-built ESP12E-based device, increasing compost monitoring uptime by 400%.
- Implemented prototype version of hardware, and wrote code for ESP12E to make API requests to application server. Received positive feedback and engagement from Composting@Dakota and Bukit Batok CC community users.
- Conducted on-site research and interviews of over 40 residents to gather feature improvements.

BrainHack TIL-AI Advanced Track, *Engineer*

May 2025

- Developed and trained Reinforcement Learning model with pytorch for Scouts and Guards roles. Achieved top 20 in advanced track qualifying round.

SUTD What The Hack Hackathon - Team Trifecta, *Software Engineer*

Dec 2024

Awarded Best Design - Most Beautiful Hack

Tech Stack: HTML, CSS, JS, Express, OpenAI

- Developed a full-stack webpage for a custom-built ESP32 based AI-powered assistive learning tool designed to enhance classroom interaction for mute and/or deaf students.
- Designed the voting interface and processed real-time transmitted data between servers.

PERSONAL PROJECTS

Triolingo - Simple language learning tool integrating duolingo API and yomi to learn vocabulary and practice pronunciation.

Mindmap - Built a simple mindmap builder using React Flow library.

Personal Portfolio - My first website in the form of a personal portfolio, using pure HTML, CSS and JavaScript.

SKILLS

- ReactJS, React Native, Expo, NextJS, Tanstack/React Query, Redux, React Router, TailWind CSS, JavaScript, jQuery, Bootstrap, HTML, CSS
- Node.js, Postman, Express, EJS, PostgreSQL, SQLite, Firebase
- Pandas, Matplotlib, Seaborn, Numpy, FastAPI
- Docker, VMs, Data Structures and Algorithms, Git, Embedded Systems