

KUAH GENE QHEE

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE
Bachelor of Computing in Computer Science

Aug 2025 - Present

WORK EXPERIENCE

THINKCODE SINGAPORE Associate Trainer

Apr 2025 - Present

- Teaching programming and robotics to children between ages of 8 to 16.

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 processes real time soil moisture and temperature data transmitted from a custom-built device, increasing monitoring efficiency by 300%.
- 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 from over 20 residents to gather current issues and lack of features.

BrainHack TIL-AI Advanced Track, Engineer

May 2025

- Developed and trained Reinforcement Learning model 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

- Developed a full-stack webpage(front and backend) for an ESP32 based AI-powered assistive learning tool designed to enhance classroom interaction for mute and/or deaf students. (HTML, JS, CSS).
- Designed voting interface and processed real-time transmitted data from custom-made device, improving classroom participation by 400%.

CO-CURRICULAR ACTIVITIES

GOOGLE DEVELOPER GROUP (NUS), Software Engineer

Aug 2025 - Present

- Developing a volunteer management system and administrative analytics tool for Caring For Life, boosting management efficiency.

RH DEVELOPERS, Engineer

Aug 2025 - Present

- Maintaining and Building facility booking software for Raffles Hall serving over 600 residents.

RHOCKERFELLAS AND UNPLUGGED, Guitarist

Aug 2025 - Present

- Electric and Acoustic Guitarist of Raffles Hall's rock and acoustic bands.

RHEBELS, Guitarist

Aug 2025 - Present

- Electric Guitarist for Raffles Hall's Fusion Orchestra.

TECH CREW, Audio

Aug 2025 - Present

- Setup audio equipment according to requirements of events.

WELFARE COMMITTEE, Member

Aug 2025 - Present

- Organised events aimed at providing welfare support to residents of Raffles Hall.

SKILLS

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

COMMUNITY SERVICE

TOUCH - YOUNG ARROWS (TYA), Mentor

May 2023 - Aug 2025

- Mentored children weekly from low-income/single parent-households at TOUCH Young Arrows (TYA), focusing on academic support and encouraging holistic development through moral-based games.