

Kartikeya - (Mononym)

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EDUCATION

National University of Singapore

Aug 2021 – May 2025

- Bachelor of Computing (Honors) in Computer Science, Year 2
- Focus Areas: Software Engineering, Artificial Intelligence

EXPERIENCE

Teaching Assistant, NUS School of Computing

Jan 2023 – Present

- Guide 12 CS freshmen in mastering object-oriented and functional programming paradigms in Java
- Enable students to tackle complex projects with confidence through personalised feedback and grading
- Deliver engaging weekly presentations on course content and maintain 90%+ student attendance

Software Engineer, Google Developer Student Club NUS

Sep 2022 – Present

- Collaborate in a team of 15 to deliver a polished, ready-for-market dashboard and LMS within a year
- Develop a high-performance Progressive Web App (PWA) following best practices, achieving a 99% Lighthouse performance audit with TypeScript, Next.js, React.js, Chakra UI, PostgreSQL
- Create frontend for cart interactions, ensuring the product works for 100+ Food Bank SG volunteers

Web Developer and Design Lead, NUS RVRC Symposium 2022

Aug 2022 – Oct 2022

- Developed frontend interface using React, Material UI independently to modernize the blog's appeal
- Integrated low-tech backend (WordPress CMS) for professors to seamlessly edit 300+ abstracts
- Managed weekly deadlines and successfully delivered the website to attract around 100 attendees

Web Developer, The BAUM Movement

Jul 2021 – Sep 2022

- Maintained website for student-run startup as founding member to promote sustainable investing
- Self-learned UI/UX design principles and Figma over 2 months to prototype and design website
- Increased page visits by 129% by analyzing website traffic data to enhance SEO

OPEN SOURCE

- **Node.js:** Isolated and fixed critical bug on website backend using TypeScript and Gatsby.js, resolving a 2-week period where the download button was unusable during major software upgrades ([PR](#))
- **TypeScript-ESLint:** Fixed linting bug where ordering checks did not occur; wrote relevant unit test ([PR](#))

PROJECTS

- **Lockdown:** Full-stack tablet security application developed using MongoDB, Express, React.js, Node.js (MERN stack), MUI; awarded Honorable Mention at NUS Lifehack 2022 ([GitHub](#))
- **OpenMic:** Full-stack social media for live entertainment developed using MERN, MUI, Figma ([GitHub](#))

SKILLS

Languages: JavaScript • Java • Python • TypeScript • SQL • C • HTML • CSS

Frameworks, Libraries: React.js • Next.js • NumPy • MUI • Chakra UI

Tools: PostgreSQL • Prisma • Git • JavaFX • Adobe Photoshop • Adobe Illustrator

LEADERSHIP

Vice-Project Director, NUS RVRC Open Day 2023

Jan 2023 – Mar 2023

- Lead a team of 4 to manage publicity direction and video filming, attracting around 200 visitors
- Coordinate with internal and external stakeholders to direct advertising outline and logistics

Publicity Director, NUSSU Student Life Fair

Jan 2022 – Aug 2022

- Led a team of 4 to manage event's overall publicity direction for over 24,000 attendees
- Contributed to event's design including logo, apparel, publicity booklets and social media