

Kartikeya - (Mononym)

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EDUCATION

National University of Singapore

Aug 2021 – May 2025

- Bachelor of Computing (Honors) in Computer Science, Year 2
- Coursework: Programming Methodology, Data Structures & Algorithms, Software Engineering, Computer Organisation, Artificial Intelligence and Machine Learning, Database Systems

EXPERIENCE

Teaching Assistant, NUS School of Computing

Jan 2023 – Present

- Introduce Object-Oriented Programming and Functional Programming in Java, to improve code structure and imbibe the confidence and ability to contribute to larger-scale software projects
- Teach a lab of 13 CS freshmen, providing feedback on and grading lab assignments weekly

Software Engineer, Google Developer Student Club NUS

Sep 2022 – Present

- Build a Learning Management System (dashboard and CMS) in a team of 15 for Food Bank Singapore's Project Juniors Club to digitalize in-person teaching programs with Agile methodology
- Tech Stack: TypeScript, Next.js, React.js, Recoil.js, Chakra UI, TailwindCSS, Prisma, PostgreSQL

Web Developer and Design Lead, NUS RVRC Symposium 2022

Aug 2022 – Oct 2022

- Developed frontend interface in React single-handedly to modernize the blog's appeal
- Integrated low-tech backend (WordPress CMS) for professors to easily edit 100+ project abstracts
- Tech Stack: React.js, Material UI, Axios, WordPress CMS

Web Developer, The BAUM Movement

Jul 2021 – Sep 2022

- Maintained website for student-run non-profit organization to encourage sustainable investing practices
- 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 in TypeScript and Gatsby.js which rendered the download button unusable for up to 2 weeks during major software version upgrades ([PR #2950](#))

PROJECTS

- **Lockdown:** NUS Lifehack 2022 Honorable Mention; full-stack tablet security application developed using MongoDB, Express, React.js, Node.js (MERN stack), MUI ([GitHub](#))
- **OpenMic:** Full-stack social media for live entertainment developed using MERN, MUI, Figma ([GitHub](#))
- **Artemis:** Task, deadline and event manager, developed using Java 11, JavaFX, Gradle ([GitHub](#))

SKILLS

Languages: JavaScript (5,000 LoC) • Java (3,000 LoC) • 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 – Present

- Lead a team of 4 to manage publicity direction including video structure and timeline
- 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