

# Charisma Kausar

Fresh CS Graduate • Available for full-time SWE roles starting August 2024

Singapore | [charisma.kausar@gmail.com](mailto:charisma.kausar@gmail.com) | [+65 84356103](tel:+6584356103) | [LinkedIn](#) | [GitHub](#) | [Personal Website](#) | [Blog](#)

## EDUCATION

### National University of Singapore (NUS)

Graduated: May 2024

#### Bachelor of Computing in Computer Science (Honours)

- Distinction in Software Engineering focus area (expected); Teaching Assistant for Software Engineering (SWE)
- Related Coursework: Software Eng Principles & Patterns, Software Testing, Software Product Eng, UI/UX Design, AI & ML

## SKILLS

- **Languages:** TypeScript, JavaScript, Java, Swift, Python, SQL, HTML, CSS, C
- **Frameworks/Tools:** React, Next.js, Express, Flask, PostgreSQL, MongoDB, Prisma, Flutter, Tailwind, REST APIs, Git, Unix

## WORK EXPERIENCE

### Quantum Inventions (Smart Transport SME acquired by Continental)

Singapore

#### Software Engineering Intern

May 2023 – Jul 2023

- Spearheaded design & development of a scalable UI plugin framework for a fleet data web app using micro frontends, enabling clients to integrate custom features like dashboards and reducing support work for 20 engineers by est 15 hrs/week
- Collaborated cross-functionally to develop a plugin manager backend, allowing 10+ clients in SEA region to configure plugins
- Implemented a Plugins API and a library of reusable UI components, leading to 30% faster external plugin development
- Tech stack: React, Redux, TypeScript, Sass, Webpack, Rollup, GitHub Actions, AWS S3 bucket

### Makino Asia (Machine Manufacturing MNC)

Singapore

#### Software Engineering Intern

May 2022 – Aug 2022

- Developed an interactive web dashboard for analysing machine performance with real-time or historical IoT data visualization, allowing remote monitoring and an estimated 80% reduction in fault diagnosis time for machine operators
- Tech stack: JavaScript, C#, HTML, CSS, ASP.NET

### Vibefam (Fitness Studio SaaS Start-up)

Singapore

#### Freelance Software Engineer

Oct 2021 – Dec 2021

- Revamped the calendar scheduling feature by implementing 2x faster and paginated cloud queries, and creating a responsive calendar frontend for 100+ fitness studios to schedule events, contributing to an estimated 20% increase in feature adoption
- Tech stack: Vue.js, JavaScript, Firebase Cloud Functions, Jest, Git

## PROJECTS

### Artisan: AI Webpage Generator for Marketing and Portfolio Sites | [www.artisan.land](http://www.artisan.land)

- Led a team of 4 to create a site generator with design customization and code exports to speed up UI development by 10x
- Achieved Best Project Award for 23<sup>rd</sup> STePS (CS3216) and NUS SoC Innovation Prize, attracting over 1000 visitors in 3 months
- Tech stack: Next.js, tRPC, Supabase, Prisma, Tailwind CSS, OpenAI API

### RepoSense: Open-Source Code Contributions Analyser | [github.com/reposense/RepoSense](https://github.com/reposense/RepoSense)

- (2024) Mentored a team of 4 junior devs in releasing v3 of RepoSense with code portfolios support and better customization
- (2023) Improved code authorship analysis to help teachers analyse individual work in group projects for 800+ students yearly
- Tech stack: Java, Gradle, Vue.js, TypeScript, Cypress, Git, GitHub

### JavaShell: JVM-Powered Bash Shell Emulator | Software Testing Project

- Devised a shell clone with file-processing commands using OOP and comprehensive testing, achieving 87% line coverage
- Tech stack: Java, JUnit, Maven, Bash, Unix

### PulsePace: Online Multiplayer Rhythm Game for iPad | [github.com/PulsePace/PulsePace](https://github.com/PulsePace/PulsePace)

- Created a real-time multiplayer rhythm game in 6 weeks: built input system, event queues, and networking module in Swift

## LEADERSHIP ACTIVITIES

### Frontend Lead | Google Developer Student Club NUS

Aug 2023 – Present

- Directing a team of 9 to develop a web app for a sustainability NGO with 50K volunteers, to cut management time by 90%
- Tech stack: Next.js, React, TypeScript, Prisma, Tailwind CSS, Nest.js

## AWARDS AND ACCOLADES

- **TCS Sustainathon 2023:** Won 2nd place for an AR STEM app; Pitched to and received award from President Halimah Yacob
- **Generation Google Scholar 2022:** Awarded to 55 students in 14K for academic excellence, leadership and diversity efforts