Charisma Kausar
Fresh CS Graduate • Available for full-time SWE roles starting August 2024
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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, Software Testing, Databases, 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
- 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 23rd 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
- (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
- 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