

# Charisma Kausar

Year 4 CS Student • Available for full-time SWE roles starting May 2024

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## EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Expected Graduation Date: May 2024

Bachelor of Computing in Computer Science (Honours)

- GPA 4.3/5.0; Specializing in Software Engineering and Artificial Intelligence; Teaching Assistant (SWE);
- Related Coursework: Software Engineering, Data Structures, Algorithms, Machine Learning, Interaction Design

## PROFESSIONAL EXPERIENCE

QUANTUM INVENTIONS

Singapore

Software Engineering Intern

May 2023 – Jul 2023

- Spearheaded software design and development of a scalable plugin framework using micro frontend architecture, enabling 3rd party developers to create custom plugins and reducing internal developer workload significantly
- Created and released 2 high-impact npm packages with APIs and a UI library for accelerated plugin development
- Tech stack: React, Redux, TypeScript, Sass, Tailwind, webpack, Rollup, GitHub Actions

MAKINO ASIA PTE LTD

Singapore

Software Engineering Intern

May 2022 – Aug 2022

- Single-handedly developed a customizable web dashboard for analysing and comparing machinery performance in real-time or on historical data instead of spending 4+ hours on IoT data processing and visualization
- Tech stack: JavaScript, C#, HTML, CSS

## PROJECTS

(Find out more on my personal website: <https://ckcherry23.github.io/>)

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 React code exports to speed up frontend dev
- Won Best Project Award for NUS Computing STePS (CS3216); Acquired over 1000 users in the first 3 months
- Tech stack: Next.js, React, TypeScript, Tailwind, Supabase, Prisma, tRPC, OpenAI API

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

- Implemented color-coding authors in code diffs and improved Git commit analysis which helped teaching staff to analyse individual efforts separately in group coding projects for 1000+ students every year
- Tech stack: Vue.js, TypeScript, Pug, Sass, Git, Java, Cypress

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

- Created a rhythm game with real-time multiplayer: built the input system, event queues and networking within 6 weeks
- Tech stack: Swift, Firebase Realtime DB, iOS

## SKILLS

- **Languages:** (*proficient*) TypeScript, JavaScript, Swift, Python, HTML, CSS, (*familiar*) Java, C#, C/C++, SQL
- **Frameworks/Tools:** React, Next.js, Redux, Tailwind, tRPC, Flutter, Supabase, MongoDB, Git, Unix, Figma

## LEADERSHIP ACTIVITIES

Frontend Lead | Google Developer Student Club NUS

Aug 2023 – Present

- Managing a team of 9 to automate volunteer management tasks for a sustainability NGO with 25000+ volunteers
- Tech stack: Next.js, Redux, TypeScript, Prisma, Tailwind, Nest.js

Vice Director, Project Management | StartIT – Tech Entrepreneurship Club

May 2022 – Apr 2023

- Organised impactful start-up workshops and hackathons for 80+ club members, fostering action-oriented learning

## ACHIEVEMENTS

**Generation Google Scholar 2022:** (for Women in Computer Science) One of the 55 scholars from 14000+ applicants to receive a US\$2500 scholarship based on commitment to diversity, innovation, and academic performance