

# Charisma Kausar

Year 3 CS Student • Available for May – July 2023 Internships

Singapore • [charisma.kausar@gmail.com](mailto:charisma.kausar@gmail.com) • [+65 84356103](tel:+6584356103) • [linkedin.com/in/charisma-kausar](https://www.linkedin.com/in/charisma-kausar) • [github.com/ckcherry23](https://github.com/ckcherry23)

## EDUCATION

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### NATIONAL UNIVERSITY OF SINGAPORE (NUS)

#### *Bachelor of Computing, Computer Science (Honours)*

Singapore  
August 2020 – May 2024

- Top 5% for Software Engineering in a class of 277 students (2021/22 Semester 2)
- Specializing in Artificial Intelligence; Minor in Entrepreneurship;
- Teaching Assistant for Software Engineering (CS2103/T); Orbital Advisor (CP2106);
- Related Coursework: Data Structures and Algorithms, Software Engineering, Machine Learning, Operating Systems, Internet of Things, Interaction Design

## PROFESSIONAL EXPERIENCE

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### MAKINO ASIA PTE LTD

#### Software Engineering Intern

Singapore  
May 2022 – August 2022

- Single-handedly developed a customizable web interface for Machine Performance Analytics, which helped improve machining effectively instead of spending days on IoT data processing and visualization
- Optimized the graph plotting algorithms to reduce runtime from minutes to less than 10 seconds
- Tech stack: ASP.NET, C#, JavaScript, HTML, CSS, Visual Studio, TFS, Windows

### VIBEFAM (FITNESS SAAS START-UP)

#### Freelance Developer

Singapore  
October 2021 – January 2022

- Revamped the calendar scheduling function by implementing faster and scalable queries on the backend, and by enhancing the calendar interface across different screen sizes on the web frontend
- Tech stack: Vue.js, Firebase

## PROJECTS

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

#### FoodStack: Group Food-ordering Mobile App

- Attained the highest level of achievement granted to only top 10% of the cohort for robust software engineering practices, and got featured in NUS Computing's social media pages (only 6 out of 406 projects selected)
- Co-developed a full-stack e-commerce app for splitting delivery fees payment with any nearby customers
- Tech stack: Flutter, Cloud Firestore, Firebase Cloud Functions

#### FineSpine: Posture Detection System with IoT

- Created applications to collect and send sensor data, display bad posture desktop alerts, and analyse user trends
- Tech stack: Python, Java, Flutter, Shell, GCP (Google Cloud Platform)

#### Twemoji: Twitter Emoji Prediction with ML

- Applied Natural Language Processing (NLP) to predict emoji reactions based on Tweets using tree-based models

## SKILLS

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**Programming:** (*proficient*): Java, JavaScript, Flutter, React, HTML, CSS, Vue.js, Git, Unix (*familiar*): Python, C++, C#, Jupyter, Colab, SQL, CI/CD, Software Testing

## LEADERSHIP ACTIVITIES

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### Deputy Director of Project Management @ StartIT – Tech Entrepreneurship Club

August 2021 – Present

- Initiated and executed the StartTank program to guide 12 teams in building their first technology start-up
- Led 2 teams of 20 students to organise biweekly tech workshops, hackathons, and networking events to promote personal vision for the club – Taking actions towards goals

## ACHIEVEMENTS

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**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