

# JOSEPH AEDAN MARCUS

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## EDUCATION

National University of Singapore

Aug 2020 - Jul 2024

Bachelor of Computing (Computer Science)

- Recipient of the Singapore Digital (SG:D) UG Scholarship 2021
- GPA: 4.57/5.0

## WORK AND INTERNSHIP EXPERIENCES

Lingosnap, Mobile Software Engineer Intern

Apr 2024 - Present

- Developed and maintained features for Lingosnap, Lalia's language learning mobile application, that reached over 30,000 downloads
- Spearheaded the development of the Intonation Activity feature for speaking practice, the first real-time intonation trainer in the industry
- **Tech Stack:** React Native, NextJS, Typescript, Expo

SingTel, Management Associate Intern (Full Stack Software Engineer)

Jun 2023 - Aug 2023

- Implemented and maintained end-to-end features on DataSpark's CAPEX Optimiser Platform
- Restructured and optimised backend API endpoint performance and frontend user experience for loading up to 800,000 data points, reducing first load times by 60%
- **Tech Stack:** ReactJS, NextJS, Typescript, Java, Spring, PostgreSQL

WorkClass, Full Stack Software Engineer Intern

Aug 2022 - Nov 2022

- Implemented and maintained features on WorkClass platform that reach over 5,000 employers
- Developed multiple API endpoints and services for communication between the frontend and backend
- Developed automation scripts in Python to handle services such as Database Management, Customer Relations Management and Profiling of applications
- **Tech Stack:** ReactJS, NextJS, Typescript, Django, Python, MySQL

Lalia, Frontend Software Engineer Intern

May 2022 - Jul 2022

- Implemented new features and maintained codebase on Lalia's English learning platform
- Designed and implemented the code for the Landing Page of the website according to product specifications and competitive advantages
- Wrote unit tests for code and aided in the refactoring of the codebase for scalability
- **Tech Stack:** ReactJS, NextJS, Typescript, AWS Amplify, GraphQL, NodeJS

## PROJECTS

[PeerPrep](#)

Aug 2023 - Dec 2023

A collaborative platform for peers to collaborate on solving Data Structures & Algorithms Interview Questions, with real-time chat and IDE collaboration.

**Tech Stack:** ReactJS, Typescript, Python, FastAPI, MongoDB, ExpressJS, Pulumi IaC, AWS ECS

[BirdWatch](#)

Feb 2023 - May 2023

A progressive web application for bird watchers to record and view bird sightings, as well as to help with bird identification.

**Tech Stack:** JavaScript, MongoDB, NodeJS, ExpressJS

## CO-CURRICULAR ACTIVITIES

WorldQuant 2023 NUS Alphathon, Runner Up

Aug 2023 - Sep 2023

- Developed 120 trading alphas on the WorldQuant BRAIN platform in the span of 30 days with an average Alpha performance of 1.43
- Achieved the Runner-Up position, 2nd out of 508 participants in the 30-day competition

Google Developers Student Club NUS AY 22/23, Frontend Software Engineer

Aug 2022 - Mar 2023

- Developed **Siew-Dai**, a bespoke in-house Data and Workflow Management System for NPO Diabetes Singapore to use in their operations of providing support to people with Diabetes
- Implemented UI elements of the platform for ease of use for laymen
- **Tech Stack:** ReactJS, TailwindCSS, Typescript, NodeJS, ExpressJS, PostgreSQL

SBS Transit Hackathon 2021, Winner

Nov 2021 - Feb 2022

- Won the hackathon with ideas built around revamping the SBS Transit app to cater to the special needs of visually-impaired patrons and wheelchair users

## SKILLS

- **Programming Languages:** Python, Typescript, Javascript, HTML, CSS, Java, C++
- **Frameworks:** ReactJS, NextJS, NodeJS, ExpressJS, TailwindCSS, Django, Spring, FastAPI
- **Database Management Systems:** PostgreSQL, MongoDB, MySQL, Prisma