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WORK EXPERIENCE

Government of Singapore Investment Corporation (GIC), Singapore   **Jul 2023 - Present**

Full-Stack Engineer Intern

- Migrated existing in-house web application's user interface to a standardised design.
- Implemented and maintained front-end features for the web application using Next.js, React Redux, Node.js and TypeScript, enhancing functionality and user experience.
- Developed RESTful API endpoints on AWS using API Gateway, Lambda, Node.js and Python, ensuring seamless communication between the web application's front-end and backend.
- Integrated data pipelines on AWS using DynamoDB, S3 and Redshift, optimizing data storage and retrieval.

National University of Singapore (NUS), Singapore   **Aug 2023 – Nov 2023**

Teaching Assistant

- Taught tutorial lessons and graded coding assignments for a class of 18 undergraduate students for a computer graphics course.

Superton, Shenzhen, Guangdong, China   **Dec 2021 – Jul 2022**

Full-Stack Engineer Intern

- Implemented dropshipping service on the company website using Vue.js and JavaScript, bringing in 2 online stores.
- Integrated key web elements to improve the Search Engine Optimization (SEO) of the company website, improving the click-through rate on Google by 20% in 3 months.
- Enhanced codebase quality and reduced its size by 10% through incorporating reusable elements.

EDUCATION

National University of Singapore (NUS), Singapore   **Aug 2023 – Dec 2024 (Expected)**

Master of Science (Management of Technology and Innovation)

- Specialization in Data Analytics for Innovation Management (DAIM)

National University of Singapore (NUS), Singapore   **Aug 2020 – May 2023**

Bachelor of Engineering (Computer Engineering)

- Graduated with Honours (Highest Distinction)
- Engineering Scholars Programme offered by the Faculty of Engineering

PROJECTS

Laser Tag (Computer Engineering Capstone Project)   **Jan 2023 – Apr 2023**

- Developed Bluetooth Low-Energy (BLE) internal communication protocols between Bluno Beetle boards and a relay laptop using Python and bluepy library on Linux, for a 2-player laser tag system.

chargEV   **Jun 2021 – Jan 2022**

- Full-stack development of an Android mobile application prototype using Flutter, Dart and Firebase, aimed at allowing users to rent out electric vehicle (EV) chargers to other EV owners.

plEASE   **May 2021 – Aug 2021**

- Full-stack development of an Android mobile application prototype using Flutter, Dart and Firebase, for students living in university on-campus residences.
- Awarded the Apollo 11 Level of Achievement (Second highest Level of Achievement) under the Independent Software Engineering Project (Orbital) module.

SKILLS

Programming Languages: TypeScript | JavaScript | HTML/CSS | Python | C++

Web Development: React Redux | Next.js | Node.js | Vue.js

Database Development: PostgreSQL | NoSQL

Cloud Services: Amazon Web Services (AWS) – API Gateway | DynamoDB | Lambda | S3 | Redshift