

Eccles Sim

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Software engineer with experience in finance and technology, adept at quickly grasping concepts to deliver efficient solutions. Focused on improving processes and leveraging expertise in computer science and artificial intelligence to drive impactful change.

Experience

Development Analyst	Standard Chartered	Sep 2023—Present
<ul style="list-style-type: none">Engaged in rotations around the FX, Trading, and Collateral team in the Corporate Banking DivisionDeveloped SQL scripts to perform database archiving processes in a high-availability production environment.Created new schedulers in Java for job scheduling services in the projectSuccessful configuration of nginx for load balancing server endpointsDeveloped feature enhancements to existing Java workflowsDeveloped screens in React and JavaScript as part of a migration initiative		
Software Engineer	ST Engineering	Feb 2023—Aug 2023
<ul style="list-style-type: none">Engaged as a dedicated developer at DSTA, contributing to a critical defence project.Utilized ArcGIS, React and TypeScript to integrate advanced map-based features and improvements.Managed the real-time information rendering process using MQTT.		
Software Engineer Intern	DBS	May 2022—Dec 2022
<ul style="list-style-type: none">Developed extensible components in Angular and TypeScript for the DBS widget market.Conducted thorough system inspection to identify and prioritize core functionalities and requirementsImplemented custom Zod validation to improve UI stability and enhance user experienceSuccessfully deployed multiple updates to the product through the CI/CD Pipeline using Jenkins, OpenShift, and GitEnsured efficient and resilient integration with microservices built on Java Spring Boot, Kafka, and CamundaActively participated in Scrum practices with Jira to accurately estimate work and track development progress.		

Projects

Web App for Habit Tracking and Journaling

- Designed and developed a mobile-responsive web application using **Next.js** to enable users to track daily habits and journal their thoughts.
- Integrated **Vercel** for continuous deployment and production updates, ensuring minimal downtime.
- Designed consistent UI/UX with **TailwindCSS**.
- Enabled data persistence with local storage to ensure users' habit and journal data are retained.

AI Mobile App for stock portfolio management

- Created a full-stack mobile app in **Flutter**, **Flask**, and **Firebase** that can be used on both Android and iOS
- Leveraged deep reinforcement learning models to generate optimized portfolio strategies
- Developed optimized portfolio allocations with validated financial metrics using Sharpe ratio.

Skills

Python

TypeScript

Java

Next.js

React

Android Studio

TailwindCSS

Databases

System Design

Education

B.E (Hons) in Computer Science

Nanyang Technological University