

ECCLES SIM

Singapore | P: +65 94505687 | eccles97@outlook.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY

December 2022

Bachelor of Engineering

Major in Computer Science

Relevant Coursework: Machine Learning; Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

ACADEMIC PROJECTS

AI Enabled Mobile Application for Stock Portfolio Management

Aug 2021 – May 2022

- Created a full-stack mobile application 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 diversified portfolio allocations with projected 400% cumulative returns, showcasing expertise in portfolio allocation and AI technology.

WORK EXPERIENCE

Standard Chartered

Sept 2023 – Present

Development Analyst, CCIB FM Post Trade Technology

- Conducted thorough analysis and regression testing to assess the impact of changes from upstream systems.
- Designed and implemented a functional payments disbursement and tracking application utilizing React, Java Spring Boot, and JWT authentication.
- Contribute to solutioning initiatives for liquidity reporting tasks.
- Engaged in an 18-month rotation program, gaining exposure to various functions in CCIB.

ST Engineering

Feb 2023 – Aug 2023

Engineer, Defence Air Systems

- 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.

DBS LTD.

May 2022 – Dec 2022

Front end Developer, Intern

- Developed extensible components in Angular and TypeScript for the DBS widget market.
- Conducted thorough system inspection to identify and prioritize core functionalities and requirements
- Implemented custom Zod validation to improve UI stability and enhance user experience
- Successfully deployed multiple updates to the product through the CI/CD Pipeline using Jenkins, OpenShift, and Git
- Ensured efficient and resilient integration with microservices built on Java Spring Boot, Kafka, and Camunda
- Actively participated in Scrum practices with Jira to accurately estimate work and track development progress.

ACTIVITIES

NTU Sea Lions

Oct 2019 – Aug 2021

Co-Centre Head

- Facilitated swimming and sailing lessons for beneficiaries
- Involved in fundraising activities to secure monies for organizing enriching events for the beneficiaries

NTU Open-Source Society

Oct 2019 – Dec 2022

Committee Member

- Built and learned new technological products in weekly held workshops ranging from data analytics, game programming, app development, to basic machine learning.

SKILLS

Technical Skills:

- Proficient in Python, Java, Dart, TypeScript, JavaScript
- Proficient Frameworks – React, Angular, Flask, Flutter, Android Studio

Languages:

Fluent in English; Conversational Proficiency in Mandarin Chinese