Lee Tse Hsien, Shaun

+65 8878 7628 | shaunlee@u.nus.edu | linkedin.com/in/Shaun-lee231/ | github.com/hoodini231

EDUCATION

National University of Singapore   Singapore
Bachelor of Computing in Computer Science   *August 2023 – May 2027*
GPA: 4.6 / 5.0

Relevant coursework: Database Systems, Software Engineering, Algorithm Design.

Experience

Full-Stack Software Engineer   August 2024 – Present
TurtTech   *Singapore*
- Created an MVP with support for both Android and iOS devices.
- Led a team of 3 to construct and architect a core back-end system, establishing efficient infrastructure for the entire application with Firebase.
- Leveraged Dart to create front-end interfaces, integrating over 20 assets to deliver an engaging user experience.
- Collaborated in a cross-functional team to design the application's UI/UX, focusing on intuitive interactions and design.
- Collaborated with a team of 5 in developing core game-play and game direction.
- Adopted Agile development processes, ensuring rapid iteration through sprint planning.

Projects

Runner's High | *Flutter, Dart, Firebase, Git*   May 2024 – August 2024
- Engineered a cross-platform gamified running application, harnessing Flutter and Firebase for real-time data sync and user engagement.
- Optimized version control workflows with Git, efficiently managing branches, resolving conflicts, and ensuring code quality via comprehensive peer reviews.
- Utilized Flutter's widget testing framework to assure robust performance of the application.
- Created application using sprint software development lifecycle framework.

Volunteer management platform | *React, MongoDB, Node.js, Express, Git*   Feburary 2024 – March 2024
- Built a full-stack volunteer management platform to streamline recruitment and retention, addressing key engagement challenges for Hack4Good.
- Implemented a RESTful API with Node.js and Express, interlinking front-end components in React with MongoDB, ensuring robust data handling and user interactions.
- Employed Postman and manual unit testing to ensure robustness of API calls with 100 percent coverage.
- Utilized React, Material-UI, JavaScript, HTML, CSS, Bootstrap, and TypeScript for front-end development.

Booking Management System | *Python, MYSQL*   March 2023 – June 2023
- Developed a desktop-based booking system, utilizing Python.
- Leveraged Tkinter module to develop interactive graphic user interface.
- Automated creation of test data and cleaning scripts to increase the efficiency of testing by 96 percent
- Implemented local SQL server using MYSQL to store and manage database information externally.

SAF Automated Report Script | *Python, Selenium, Twillio, FormSG*   January 2022 – February 2022
- Increased efficiency of task completion by 90 percent and reduced errors by almost 100 percent
- Automated the generation of daily situational reports for HQ AMS using Python, streamlining data extraction from submitted ambulance reports with Selenium and Pandas.
- Integrated Twilio for seamless WhatsApp communication and deployed a ChronTab-based scheduler to ensure the script ran autonomously on a daily basis.
- Executed automated SMS OTP scraper using Mac OSX and SQLite 3.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, Dart.
Frameworks: NodeJS, JUnit, Material-UI, Express app, Firebase.

Methodologies: Sprint Software Development Lifecycle, UML & ERD Diagrams.