

Lee Tse Hsien, Shaun

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EDUCATION

National University of Singapore

Bachelor of Computing in Computer Science

GPA: 4.6 / 5.0

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

Singapore

August 2023 – Present

Experience

Full-Stack Software Engineer

August 2024 – Present

TurtTech

Singapore

- Created minimal MVP with support for both Android and ios devices.
- Led a team of 3 to construct and architect a core back-end system, establishing scalable and efficient infrastructure for the entire application with the Google Cloud platform.
- Leveraged Dart to create front-end interfaces, integrating game 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 responsive design.
- Adopted Agile development processes, ensuring rapid iteration and continuous integration through sprint planning and retrospectives.

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*

February 2024 – March 2024

- Built a full-stack volunteer management platform to streamline recruitment and retention, addressing key engagement challenges for Hack4Good.
- Implemented RESTful APIs with Node.js and Express, interlinking front-end components in React with MongoDB, ensuring robust data handling and user interactions.
- Employed Postman and unit testing to ensure robustness of API's.
- 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.
- Implemented local SQL server using MYSQL to externally store and manage database information.

SAF Automated Report Script | *Python, Selenium, Twilio, FormSG*

January 2022 – February 2022

- 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, C/ C(Sharp), .NET, SQL, JavaScript, HTML/CSS, Dart.

Frameworks: React, Node.js, JUnit, Material-UI, Express app, Firebase.

Developer Tools: Git, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Agile Development Cycle.

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