Seow Rui Sheng

+65 96533896 • e0725454@u.nus.edu • https://www.linkedin.com/in/Seow-Rui-Sheng • https://github.com/RuiShengGit

EDUCATION

National University of Singapore   **Aug 2021 - Present**

Bachelor of Engineering (Honours) in Computer Engineering
- Cumulative Average Point: 4.19 (out of 5.0)
- Expected Date of Graduation: May 2025
- Relevant Coursework:

WORK AND INTERNSHIP EXPERIENCE

Data Engineer Intern, Johnson & Johnson   **Jan 2024 – June 2024**
- Designed and implemented an end-to-end data quality monitoring system for the **ACE CAE**, an AI model that **generated millions in revenue**, improving the accuracy and reliability of sales strategy recommendations.
- Developed automated data quality checks using **Python, SQL, and Spark** on **Databricks platform**, effectively removing redundant records from large datasets to enhance data integrity.
- Generated **Excel reports** and **automated email notifications**, streamlining the reporting process and facilitating timely communication with business stakeholders.
- Collaborated with cross-functional teams to integrate data quality checks, leveraging **AWS S3** data storage, collection and **Spark** for efficient data processing.

ACADEMIC PROJECTS

Internal Comms, Computer Engineering Capstone Project   **Aug 2024 – Nov 2024**
- Developed an internal communication system for real-time data exchange between Bluno Beetles and a relay node using **Python, C++ and BluePy**.
- Implemented **multithreaded** BLE connections to manage four Bluno Beetles simultaneously.
- Designed robust **communication protocols** (**Stop-and-Wait**) to ensure reliable data transmission.
- Enhanced **reliability** with CRC8 error detection, packet fragmentation handling, and rapid reconnection strategies.

SHOPHOP, Independent Software Development Project (Orbital)   **May 2022 – Aug 2022**
- Built a centralized platform using React.js and Node.js to compare product prices across multiple websites through web scraping.
- Integrated frontend with backend APIs, enabling user authentication and CRUD functionalities.
- Managed data storage with MongoDB and ensured feature reliability with Cypress end-to-end testing.
- Designed and styled responsive UI components using HTML, CSS, and JavaScript.

CERTIFICATIONS AND AWARDS

Award/Competition Name   **Aug 20XX - Present**

ADDITIONAL INFORMATION

- **Languages:** English (Native), Chinese (Native), Japanese (Elementary)
- **Proficient In Programming:** C, C++, Java, HTML, CSS, JavaScript, HTML, Java, PostgreSQL