LOH ZHI XUAN

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WORK EXPERIENCES

Thermo Fisher Scientific, Genetic Sciences Division, Full-Stack Web Developer

Sep 21 - Present

- Implemented & unit-tested features in React, Angular & Spring Boot according to product specifications.
- Stress tested REST API using Jmeter to derive usage limits for consumers.
- Developed a CICD pipeline to thoroughly test the code regularly to maintain high code quality.
- Maintained & upgraded existing desktop apps to incorporate new features & performance improvements.
- Evaluated web development technologies like HammerJS in the early stages of the SDLC.

Achievements

- Proposed & incorporated JSON schemas to improve data integrity & documentation of their current practices.
- Conducted training for the department to understand the potential benefits & applications of JSON schemas.
- Achieved "Honorable Mention" for Thermo Fisher Scientific internal regional hackathon.

ST Engineering Aerospace, Data Analyst Intern

May 20 - Sep 20

- Analyzed UAV flight data using MATLAB to investigate the causes of component failures.
- Discovered potential features to forecast failures on expensive aircraft components for predictive maintenance.

Red Dot Robotics, Assistant Robotics Engineer Intern

May 19 – Aug 19

- Executed a series of hardware stress tests to make sure that hardware can perform in tough conditions.
- Developed Python code to interface with UWB beacons for a robot localization programme.

EDUCATION

Singapore University of Technology and Design (SUTD)

May 18 - Aug 21

- Bachelor of Engineering (Engineering Product Development), Computer Engineering Track, Honors w Distinction
- Singapore Business Federation (SBF) Foundation Donor Scholarship.

PROJECTS

SingHealth Retail Management, Project Manager & Backend Developer

Jan 21 – Apr 21

- Liaised with the client for interim meetings to continually align the team with the client's requirements.
- Developed backend code for an app to digitize and partially automate a retail audit process.
- Documented the API to facilitate cooperation between frontend & backend developers.

Project Design Odyssey (DO) Telegram Bot, Software Engineer

Oct 19 - Feb 20

• Proposed & developed a Telegram bot, using Python & AWS, to send scheduled event reminders to participants.

MRT NavBuddy Telegram Bot, Software Engineer

Oct 22 - Feb 23

• Designed & developed a Telegram bot, using Java & AWS, to alleviate the SG MRT commuter experience

Home Automation System, Developer

Jan 21 - Dec 22

• Designed & developed a "Google Home"-like replica, using Python & MQTT to enable voice interaction with my computer

CO-CURRICULAR ACTIVITIES

Thermo Fisher Scientific Toastmasters Club, President

Aug 24 - Present

- 2nd runner up, Area Table Topics Contest
- 2nd runner up, Area Speech Evaluation Contest
- Enhanced community visibility through email marketing campaigns

ADDITIONAL INFORMATION

- Technical skills: React, Angular, Vue, Python, Django, FastAPI, Spring Boot, Java, Jmeter, Amazon Web Services (AWS), Automation Anywhere
- Fluent in English and Mandarin (spoken & written). Enjoys making handicraft as a hobby (IG: <u>@wood_werkz</u>)