Lum Ting Feng, Eugene

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EXPERIENCE

DSO National Laboratories   May 2023 – Dec 2023

Full-Stack Software Engineer, Intern

- **Metric Dashboard Web Application:** Converted a log and GUI-based system dashboard application into a web application using MERN, NextJS and Tailwind, which reduced the render delay of 3s to ~0.2s.
- **System Design:** Successfully designed and proposed a system design for the metric dashboard web application, allowing accurate display of data and fast rendering of ~-0.2s while server is publishing at a rate of 20hz.
- **System Onboarding:** Completely removed the need of creating metric dashboard web applications for each system by onboarding different systems onto a central, decoupled application that allows users to customise their own individual system dashboards.
- **Data Visualisation Dashboard**: Developed and designed an analytic dashboard that gathers plots time-series data into data graphs using Grafana, Prometheus and MongoDB, greatly reducing time taken for anomaly detection.
- **JavaScript Testing Tools:** Researched on industry standard JavaScript testing tools such as Cypress and Jest, to incorporate into DSO's applications.

Shopee Pte. Ltd.   May 2022 – Aug 2022

Technical Project Management, Intern

- **Cross-Functional Projects:** Project Lead for large scale company wide technical deprecation projects and marketplace feature projects involving cross-functional teams.
- **Process Improvements:** Drove new initiatives to improve process flows and management within Order Team and cross teams by carrying out analysis to gain insights to identify gaps in efficiency.
- **Resource Planning:** Managed resource planning for end-to-end project implementations with Jira, Confluence and GitLab.
- **In-house Management Portal:** Co-designed and developed an in-house management portal that allows boosts efficiency of resource planning of over 100 project/product managers.
- **Scrum Meetings:** Hosted diverse meetings ranging from retrospectives, technical designs, quality assurance demos, and quarterly roadmap planning and prioritization.
- **Stakeholders Engagement:** Interacted with various stakeholders ranging from Product Managers, Developers, Quality Assurance testers, User Acceptance testers, and Release Managers for project delivery.

EDUCATION

Nanyang Technological University, Singapore   Aug 2020 – Dec 2023

Bachelor of Computing (Computer Science)

- Expected Honours (Distinction), Current CGPA: 4.35/5.00

PROJECTS

Web Based Development Environment for Programming   *Python, Django, SQLite, Bootstrap, jQuery*

- Individually extended a web application that allows users to practice programming questions, similar to Leetcode and HackerRank.
- Extension was in the form of an online learning system where users are now able to watch lectures, submit tutorials, participate in discussions as well as practice MCQ and open-ended questions where previously it was limited to coding challenges.
- Utilised by over 600 NTU students every semester when attempting tutorials, assignments, and quizzes.

Healthier Choice Search Application   *Python, Flutter, Figma, Firebase*

- In a team of 6, created a mobile application that allows users to search for healthier choice of food items.
- Gathered images and prices of over 500 food items based on the product names from Singapore's government API of healthier choice products.
- Lead the team in terms of product design as well as user flow.

SKILLS

Languages: Proficient in English and Chinese

Programming Languages: C, C++, Java, Python, JavaScript, TypeScript

Front-end frameworks / libraries: HTML, CSS, Node.js, ReactJS, Django, NextJS, Tailwind, Bootstrap, Redux, Cypress, Selenium

Databases: MongoDB, Firebase, SQLite

Others: Jira, Confluence, Git