Serena To

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Professional Experience

Software Engineer - VMO Holdings   *11/2021 - 08/2023*

- **Techlead** in front-end team. Taking responsibilities includes:
  - Responsive design, cross-browser compatible user interface, **achieving 80% customer satisfaction**.
  - Set up and maintained automated **CI/CD** system for team on **AWS**.
  - Keeping a high bar on coding standards that follow **OOP principles** like **SOLID**.
  - Adherence to **Agile**/**Scrum** methodology and **led the full software development lifecycle** for scalable hospital solutions, including requirements gathering, coding, testing, and deployment.
- Integrated and built a PDF sharing and live editing feature, enabling **real-time collaboration** between doctors and patients.
- Architected and **led a team of 3** to build a doctor/patient management system that allows users to manage (**CRUD**) and search for doctors/patients.

Software Engineer - CMC Global   *10/2020 - 10/2021*

- Designed the resumes feature that allows users to fill in the information (experience, projects, education, etc). This feature was **capable of scaling to thousands of concurrent users**.
- Debugged and optimized large-scale web applications, **improving processing efficiency by 30%**.
- Developed scalable **RESTful APIs** to streamline candidate information management, **improving API response times by 20%**.

Software Engineer - Electronic Records Management Company   *02/2018 - 09/2020*

- Designed and developed **responsive Single Page Web Applications (SPA)** for hospital solutions.
- Optimized data warehouse feature, **reducing query time by 25%**, and **ensured fault-tolerance** for large-scale data handling.
- Collaborated with product managers and designers to define feature roadmaps, ensuring alignment with business goals and customer needs.

Projects

Attendance System

Designed back-end system and integrated **Google OAuth2 in security** for an attendance system that manages all the attendance processes and information of students with many types of accounts for all the events.

GitHub: https://github.com/HuongLanTo/MIU-EA/tree/main/project

IoT-Based Air Quality Monitoring System

Developed an **IoT system** to monitor air quality using **Angular, Node.js, MySQL** and mapping library **Leaflet**. The project aimed to provide an overview of air parameters, enabling users to make informed decisions that benefit their health.

GitHub: https://github.com/HuongLanTo/iot-project

Education

Maharishi International University - Fairfield - IA

- **Master of Science in Computer Science**
- Coursework: Enterprise Architecture, Software Architecture, Advanced Software Development, Algorithms

Thang Long University

- **Bachelor of Computer Science**

Technical Skills

- **Technologies**: Java, Spring Boot, ReactJS, Angular, JavaScript, TypeScript, Node.js, VueJS, Redux, Express.js, HTML5, CSS3, MySQL, MongoDB, Microsoft SQL Server, Cloud Computing, AWS, Microservices Architecture, GraphQL, RESTful, JWT, JSON, Networking.
- **Design Patterns/ Programming paradigm/principle:** MVC, Singleton, Facade, Observer, Session, Factory, Delegate, Object-Oriented Programming (OOP), SOLID.
- **Tools**: Github, Docker, Postman, Jenkins, Jira, Confluence, Figma, Firebase, Heroku, Netlify, Azure.