

HUONG (AMY) Do

Madison, Wisconsin

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Education

University of Wisconsin, Madison

Expected Graduation: December 2024

Bachelor of Science in Computer Science and Data Science

Coursework: AI, Algorithms, Database, Machine Organization and Programming, Human-Computer Interaction, Mobile Application, Optimizations

Experience

TANAAKK

May 2023 – August 2023

Software Engineer Intern

- Collaborated with a global team to develop Icuco, a web-based platform offering time management solutions tailored for kindergarten management systems using **React.js**.
- Contributed to backend development using **Java Spring Boot**, enhancing operations by managing a **SQL** database with **500,000+ records**, focusing on **RESTful API** design and implementation.
- **User Authentication:** Simplified the traditional login system for less tech-savvy staff, utilizing Axios for secure backend credential verification, and adopted JWT for enhanced security and authentication.
- Developed **unit and integration tests** for new features, ensuring high-quality code and reliable user experiences.

Office of Human Resources at UW-Madison

September 2023 – Present

Software Engineer

- Developing and maintaining OHR websites and applications using **MySQL**, **JSON**, JavaScript frameworks (**React**, **AngularJS**), and **SASS** tool, utilizing **GitLab** for code versioning and team collaboration.
- Pioneering advanced **WordPress** and **CMS** functionalities, integrating custom plugins and interfacing with **third-party APIs** using **Fetch API** methods.
- Collaborating with **developers and stakeholders** to maintain high standards with visuals, and editorial content.

University of Wisconsin, Madison

January 2023 – Present

Academic Tutor

- Reinforcing instruction on fundamental structures of computer systems and **C language** to **100+ undergrads** weekly.
- **Course:** CS354 - Machine Organization and Programming

Projects

Social To Do(2023) | Full-Stack Mobile App | *React Native, JavaScript, Flask, Python, SQLite, Azure*

[Github](#)

- Co-developed a React Native and Flask-based mobile app for UW students, integrating task management with social networking. Focused on backend integration using **Flask**, **SQLite**, and **Firebase** for efficient data handling and **Azure** for cloud hosting.
- **Key Features:** Task management for personal organization, social interaction tools (posts, likes, comments), and profile customization, enabling users to collaborate on tasks with friends.
- Spearheaded UI improvements, ensuring intuitive, responsive design for a diverse user base. Enhanced user engagement through seamless, real-time interactions backed by optimized **API endpoints** and robust error handling.

Book Mapper(2022) | *Java, Linux*

[Github](#)

- Co-developed and optimized system functionality for the application, effectively managing **11,000+** book entries in CSV format to streamline user search experiences.
- Using **Agile Methodologies** practices to drive the implementation of Java-based operating system features. This ensured secure data storage and manipulation, along with a seamless presentation to end-users.
- Authored and executed **Java test cases** to validate system robustness, ensuring accuracy and reliability in data handling, and subsequently improved overall application stability.

Technical Skills

Languages: Java, JavaScript, Python, HTML/CSS, PHP, JSON, SQL, C/C++, C#

Frameworks: React/React Native, REST API, Spring Boot, basic Google Cloud and AWS

Tools: VS Code, GIT, Agile Methodologies, GitHub, Gitlab, Postman, Xcode, Linux, Microsoft Office, Jira, Trello

Leadership / Extracurricular

Association for Women in Computing (WACM)

September 2022 – Present

Undergraduate Representative

University of Wisconsin, Madison

- Led biweekly tech talks for **100+** women students on course selection, grad school choices, and interviews in CS.