

# HUONG (AMY) Do

Madison, Wisconsin

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[Portfolio](#)

## 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

SideShift

February 2024 – Present

*Lead Software Engineer*

- Leading the development of **SideShift 2.0**, a part-time campus job platform, employing **React Native** and **PostgreSQL** for **REST API** integration, managing 500+ users in preparation for its new launch in early April.

Office of Human Resources at UW-Madison

September 2023 – February 2024

*Software Engineer*

- Developing and maintaining OHR websites and applications using **PHP/MySQL**, 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.

TANAACK

May 2023 – August 2023

*Software Engineer Intern*

- Collaborated with a global team in an **Agile** environment 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 **Microsoft SQL Server** database with **500,000+ records**, focusing on **RESTful API** design and implementation.
- User Authentication:** Simplified the traditional login system, utilizing **Axios** for secure backend credential verification, and adopted **JWT** for enhanced security and authentication.
- Developed **unit and integration tests** for new features using **JUnit**.

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:** OAuth 2.0, task management for personal organization, social interaction tools (posts, likes, comments), and profile customization, enabling users to collaborate on tasks with friends.

**Book Mapper(2022)** | *Java, Linux*

[Github](#)

- Co-developed and optimized system functionality for the application, effectively managing **11,000+** book entries in HTML 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.
- Executed **JUnit** 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

**Interests:** Explore coffee shops, learning languages, fashion, generation Z

## 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.