HUONG (AMY) DO

Madison, Wisconsin

📞 +1(214) 430-1849 ✉ dothienhuong2701@gmail.com in LinkedIn ○ Github Portfolio

Education

University of Wisconsin, Madison   **Expected Graduation: December 2024**
Bachelor of Science in Computer Science and Data Science
Coursework: AI, Algorithms, Building UI/UX, 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** and **PostgreSQL** for **REST API** integration, managing 500+ users in preparation for the platform's relaunch in early April.

Office of Human Resources at UW-Madison   **September 2023 – February 2024**
Software Engineer
- Developing and maintaining OHR websites and applications using **MySQL, JavaScript, HTML/CSS**, 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.

TANAAKK   **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, JavaScript, HTML/CSS**.
- **Search & Sorting**: Developed an accessible interface using semantic HTML, optimized for screen readers, with React-managed keyboard focus and event handlers. Implemented real-time form validation for user input feedback.
- 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.

Projects

Social To Do(2023) | Full-Stack Mobile App | *React Native, JavaScript, Flask, Python, SQLite, Azure, Figma*   **Github**
- Co-developed a React Native and Flask-based mobile app for 100+ users, 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.

Movie Finder(2023) | Website | *React, JavaScript, HTML, CSS*   **Demo & Github**
- Developed a user-friendly platform, utilizing **React.js**, which provided dynamic search and explore movies, featuring an autocomplete search bar, detailed movie insights, and mobile-responsive design.
- Integrated **The Movie Database API**, accessing a database of **400,000+ movies** using asynchronous JavaScript, and ensure accurate and expedited data retrieval, processing over **500 API calls** daily for real-time information update.
- **Key Feature:** A recommendation engine for a movie discovery platform, offering genre-based suggestions, top picks, and real-time updates, complemented by an interactive UI with search functionality and detailed film insights.

AI Teeko Player(2022) | AI game | *Python, Linux*   **Github**
- Implemented a **minimax algorithm** for strategic gameplay, optimized to make decisions within 5 seconds, significantly outperforming a baseline AI in both efficiency and strategy.
- Developed a **heuristic function** for AI evaluation of non-terminal game states, achieving computational efficiency and strategic depth that led to a **66% win rate**, enabling the AI to beat a random opponent in 2 out of 3 matches.

Technical Skills

Languages: Java, JavaScript, Python, HTML/CSS, SQL, MySQL
Frameworks: React/React Native, REST API, basic Google Cloud and AWS, Flask
Tools: VS Code, GIT, Agile Methodologies, GitHub, Gitlab, Postman, Xcode, Linux, Microsoft Office, Figma, 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.