David Huang

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EDUCATION

University of Wisconsin - Madison   Madison, WI
Bachelor of Science in Computer Science and Psychology   *September 2022 – May 2026*

- GPA: 3.3/4.0
- Relevant Coursework: Data Structures, Intro to Algorithms, Machine Organization & Programming, Operating Systems (OS), Machine Learning, Intro to Human-Computer Interaction, Data Modelling

EXPERIENCE

Software Engineering Intern   June 2023 – August 2023
Fayble   *Berkeley, CA*

- Spearheaded the development and implementation of scripts using **Python** to automate player and leaderboard management through API requests, streamlining operations and improving data reliability
- Leveraged JSON and RESTful API integration to design and maintain dynamic leaderboards, ensuring accurate, real-time player rankings and statistics
- Optimized data processing workflows, reducing API request handling time by **30%**
- Developed robust error handling and data validation processes to ensure the reliability and accuracy of data

PROJECTS

Badger Map | *Java, JUnit, JavaFX, Git*   April 2023 - May 2023

- Developed a Java application storing and managing 100+ locations across the UW-Madison campus. The tool aids students in efficiently planning their class schedules by determining the most optimal routes between buildings
- Designed an intuitive user interface using JavaFX, enabling fluid personalization through additional features such as building management and the integration of personal .dot files
- Implemented rigorous unit testing protocols with JUnit, providing 80% code coverage to ensure smooth program functionality
- Utilized Git for systematic version control, upholding the integrity and manageability of the project's codebase

Madison Market | *Java, JUnit, Git*   February 2023 - March 2023

- Developed a comprehensive market catalog using Java to cater to Madison residents, efficiently organizing information across a wide range of products while providing a user-friendly experience for customers
- Implemented a data parsing feature for fluid CSV file integration, facilitating user access to a catalog of 200,000+ products and enhancing browsing plus purchasing options
- Implemented user account creation functionality enabling residents to post and sell their own products, expanding the platform's offerings and fostering a local online marketplace.

LEADERSHIP EXPERIENCE & EXTRACURRICULARS

Event Coordinator   January 2024 – Present
Chinese American Student Association   *Madison, WI*

- Planned the logistics for monthly general body meetings and organized roles plus tasks for the board, creating a positive experience for members
- Collaborated with representatives from the university and other organizations to design and run large-scale events hosting 400+ people

TECHNICAL SKILLS

Languages: Java, Python, C, R, Lua, HTML/CSS, JavaScript
Developer Tools: Git, Github, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Postman
Libraries: pandas, NumPy, Matplotlib