

# Grace Huang

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## RELEVANT EXPERIENCE

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### Washington University in St. Louis | Teaching Assistant | St. Louis, MO Aug 2023 - Present

- Help students with Data Structures & Algorithms, Object-Oriented Programming, and Discrete Mathematics.
- Conduct weekly office hours to answer students' questions and assist on problem sets.
- Grade and provide constructive feedback on exams and assignments for 300+ students.

### Z-lab for Biophotonics | Undergraduate Research Assistant | St. Louis, MO Aug 2024 - Dec 2024

- Developed a GUI using Javascript and Python to interact with a SMU device, power meter, camera, and piezo controller to support photonic integrated chip (PIC) inspections.
- Optimized fiber alignment to achieve maximum power meter output for PIC testing using the Nelder-Mead optimization algorithm.

### Principal Financial Group | Software Engineer Intern | Des Moines, IA May 2024 - Aug 2024

- Assisted in the development, maintenance, and unit testing of 50+ web components for PFG's design system, ensuring functionality and usability across all Principal interactions.
- Collaborated daily with cross-functional teams, including product managers and designers, to deliver cohesive and high-quality products used by Principal's 20,000+ employees.

### National Advanced Driving Simulator | Data Analyst Intern | Iowa City, IA June 2021 - Aug 2021

- Developed a batch-processing method using Python to clean 1000+ unstructured eye-tracking pixel data.
- Determined generalized areas of distraction amongst drivers by dividing the pixel data into quadrants and visualizing the data using various statistical models.

## PROJECTS

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### File System Simulation | [Project Link](#) | C++

- Programmed a software simulation of a file system with a user interface imitating that of a terminal to allow users to interact with the system and have control over the files it contains.

### Chat Server | [Project Link](#) | HTML, CSS, JavaScript, Socket.IO

- Engineered a robust chat server that allows users to create or join public/private chat rooms, view a room's list of active users, and send private messages.

### Calendar | [Project Link](#) | HTML, CSS, PHP, JavaScript, MySQL, AWS

- Developed a personalized and interactive calendar where different users can create descriptive events to put on their calendar, associate events with customizable tags, edit/delete events they've created, and share selected events with other users of the application.

## EDUCATION

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### Washington University in St. Louis | McKelvey School of Engineering | St. Louis, MO

**B.S. in Computer Science + Mathematics; Minor in Human-Computer Interaction** Expected Graduation: May 2026

GPA: 3.98; 6x Dean's List

**Relevant Courses:** Data Structures, Discrete Mathematics, Object-Oriented Software Development, Rapid Prototype Development and Creative Programming, Intro to AI, Intro to Visualization, Intro to Data Science, Linear Statistical Models, Analysis of Algorithms, Intro to Systems Software, Intro to Quantum Computing, Visual Principles for the Screen

## SKILLS

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**Technical Skills:** Java, Python, C++, Javascript, HTML, CSS, PHP, AWS, React, MySQL

**Tools:** Git, Visual Studio Code, Jira, Eclipse, Microsoft Teams, Microsoft Excel, Jupyter Notebook, Figma, Adalo