Alice Mao

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EDUCATION

Washington University in St. Louis   **St. Louis, MO**
Masters of Science in Computer Science   *Aug 2024 – Expected May 2025*
Bachelor of Science in Computer Science, Minor in Psychology and Human-Computer Interaction   *Aug 2021 – May 2024*

Relevant Coursework

Data Structures and Algorithms	Logic and Discrete Mathematics	Analysis of Algorithms
Introduction to Data Science	Object-Oriented Software Lab	Introduction to AI
Rapid Prototyping and Creative Programming	Introduction to Human-Centered Design	UX Research Methods/Design
Introduction to Visualization	Visual Principles for the Screen	Systems Software

Awards & Honors: Dean's List (All Semesters), UAA All-Academic (2023, 2024), WashU Hackathon (3rd place)

SKILLS

- **Coding Languages:** Angular, Assembly Language, C, C++, CSS, d3.js, Django, Git, HTML, Java, JavaScript, Linux, Python, PHP, React, SQL, Swift, TypeScript, x86 Intel
- **Software:** Adobe Illustrator, Canva, Figma, Microsoft Suite, Google Suite, XCode, VSCode, Visual Studio
- **Spoken Languages:** English (Fluent), Mandarin (Fluent)

RESEARCH

Sensory and Ambient Interfaces Lab   **Washington University in St. Louis**
Research Assistant   *July 2023 – Present*

- Developing an iOS phone app with a companion iOS watch app using SwiftUI
- Processing of input data from a rowing machine to trigger haptic feedback based on user-defined thresholds
- Creating custom haptics patterns that correlate to specific HealthKit biometrics

Computer Vision Swimming Lap Counter   **Washington University in St. Louis**
Developer   *Aug 2024 – Dec 2024*

- Using Python library OpenCV to develop a lap counter for swimming that accurately tracks how many laps swum
- Creating UI that can display the number of laps and lap splits how many lap splits for more than one swimmer
- Dynamically color correct input videos to better automatically detect swimmers

EXPERIENCE

Washington University in St. Louis   **St. Louis, MO**
Head Teaching Assistant – Introduction to Computer Engineering   *Aug 2024 – Present*

- Manage 70 TAs and assigned office hour times for each TA to work
- Ensure that assignment rubrics are correct and distributed at the proper time
- Delegated each TA to a group of students to work with during in class studio

Teaching Assistant – Introduction to Computer Engineering   *Jan 2022 – Aug 2024*

- Led weekly 80-minute labs to facilitate students' understanding of C, Assembly AVR, and the Arduino circuit board
- Graded lab assignments and proctored exams for over 1600 students, ensuring timely feedback and upholding academic integrity
- Provided guidance during office hours twice a week to support students in completing their assignments

Greenheart Partners   **Remote**
Full Stack Software Developer   *June 2022 – July 2022*

- With a team of 10, developed website modules using HTML, JavaScript, and CSS
- Designed illustrations and icons used in modules and presentation slides
- Served as liaison between the design and software teams

CAMPUS ACTIVITIES

Washington University in St. Louis Varsity Swim Team   **St. Louis, MO**
NCAA Division III Student-Athlete   *September 2021 – Present*

- Train 20+ hours a week including swim practice and weight training
- Represent WashU at swimming competitions, including the UAA Swimming & Diving Championships