Oliver C. Wu

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EDUCATION

University of Michigan   Ann Arbor, MI
Bachelor of Science in Computer Science   Aug 2021 - Dec. 2024
Relevant Coursework: Web Systems, Database Management Systems, Operating Systems, Computer Organization,   GPA: 3.3/4.0
Data Structures and Algorithms, Applications of Computer Science Theory, Discrete Mathematics, Applied Linear Algebra

Languages: C/C++, Python, Javascript, Java, Assembly   **Tools:** WSL, git, Jira, Bitbucket

Back End: AWS, Azure Cloud, SQL/MySQL, Mongodb, Firebase   **Front End:** HTML/CSS, React, Flask

WORK EXPERIENCE

University of Michigan Engineering Career Resource Center   Ann Arbor, MI
Website Design Intern   **Sept. 2023 – Present**
- Re-designed the website to be more user-friendly, boosting available resources for students by 30%.

Boncor Medical LLC   Bingham Farms, MI
Technologies Software Engineer Intern   **May 2023 - Aug. 2023, May 2022 - Sept. 2022**
- Architected IRB and HIPAA compliant databases handling patient vital data leveraging MongoDB and API integration.
- Designed algorithms leveraging 6-DOF data and C++ capable of integration with Fitbit and iOS.
- Tuned API to decrease memory usage by 50% and speed up query times by 45%
- Created mobile app features to allow users to modify and receive notifications upon entering or leaving geolocation bubbles utilizing TypeScript, MongoDB, and REST APIs. This has led to a 10% increase in app store downloads.
- Developed frameworks and tools to automate end to end user testing leveraging Node.js and Auth0 APIs increasing coverage by 85%
- Created web pages utilizing Javascript, React, CSS/HTML and connected it to Stripe APIs and other cloud services providing an interactive platform for users
- Built AI chatbots with multiple Azure Web Services to automate customer support saving 10 hours of labor per month

Northville Academic Games   Northville, MI
Freelance Web App Product Creator   **June 2020 – April 2022**
- Created a multi-player, multi-game app, using HTML/CSS, Java, JavaScript, and MySQL to host Academic Games practices and tournaments for over 500 students during the COVID-19 pandemic. Took the program through the software development lifecycle from concept to hypercare.
- Hosted and maintained the application with multi-tier real time communication, on AWS expanding user capacity by 250%.

Association Of Chinese Americans   Madison Heights, MI
Data Management Intern   **June 2021 – Aug. 2021**
- Designed an interactive website leveraging JavaScript, HTML, and CSS, and provided scripts to operations staff on website maintenance increasing website traffic by 35%.
- Compiled, sorted, and analyzed data from various sources to streamline financial expenses and cut operation costs.

CERTIFICATIONS

CITI Program Information Privacy Security (IPS)   **May 2023 – May 2026**
CITI Program Responsible Conduct of Research (RCR)   **May 2023 – May 2026**

CAMPUS VOLUNTEERING

Union of Vietnamese Student Association Midwest (UVSA-Midwest)   Ann Arbor, MI
University of Michigan Public Relations Chair   **October 2021 – Present**
- Connected with 65 organizations both at the University of Michigan and out of state to execute over 25 collaborative events
- Redesigned an immersive website for the Association boosting click rate by 55%

Web Development Committee Chair   **September 2023 – Present**
- Built a mobile app utilizing Javascript, React, and Firebase for UVSA-Midwest seamlessly supporting over 600 users.