Oliver Caleb Wu

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EDUCATION

University of Michigan   Ann Arbor, MI
School of Literature, Science, and the Arts   Aug 2021 - Dec. 2024
Bachelor of Science in Computer Science   **GPA: 3.3/4.0**
Relevant Coursework: Web Systems, Database Management Systems, Operating Systems, Data Structures and Algorithms, Computer Organization, 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**
- Redesigned the ECRC website to be more user-friendly, boosting available resources for students by 30%.

Boncor Medical LLC   Bingham Farms, MI
Backend Software Engineer Intern   **May 2023 - Aug. 2023**
- Optimized API calls and structure to decrease memory usage by 50% and speed up query times by 45%
- Utilized TypeScript, MongoDB, and REST APIs, to allow users to modify, and receive notifications upon entering or leaving geolocation bubbles leading to a 10% increase in app store downloads
- Developed internal tools to automate end to end user testing utilizing Node.js and Auth0 APIs increasing coverage by 85%
- Created a web page utilizing Javascript, React, CSS/HTML and connected it to Stripe APIs and other cloud services providing an interactive platform for users

Software Engineer Intern   **May 2022 - Sept. 2022**
- Architected a database in MongoDB handling patient vital data and integrated it with API endpoints leveraging TypeScript
- Built a fall detection algorithm using 6-DOF data and C++ capable of integration with fitbit and ios
- Designed and implemented an AI chatbot utilizing multiple Azure Web Services to automate customer support saving 10 hours of labor per month

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.

PROJECTS

Northville Academic Games   Northville, MI
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%.

CAMPUS INVOLVEMENTS

Union of Vietnamese Student Association Midwest (UVSA-Midwest)   Ann Arbor, MI
University of Michigan Public Relations Chair   **October 2021 – Present**

- Connected with 52 organizations both at the University of Michigan and out of state to execute 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 for UVSA-Midwest seamlessly supporting over 500 users.

ADDITIONAL

- Private Chef, Founder and Head Chef of Alg 7 Kitchens

- Volleyball and Ping pong enthusiast | Avid hiker on a journey to hike all national parks in the U.S.