

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: 3.2/4.0

Relevant Coursework: Computer Organization, Applications of Computer Science Theory, Web Systems, Database Management Systems, Data Structures and Algorithms, Information Systems, Discrete Mathematics, Applied Linear Algebra,

Languages: C++/C, Python, Node.JS, Typescript, Flask, Assembly **Tools:** WSL, git, Jira, Bitbucket

Back End: AWS, Azure, Mongodb, MySQL, SQL, Rest API

Front End: HTML/CSS, React, Bootstrap

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, increasing 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%
- Used 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%
- Designed a web page utilizing Bootstrap, React, CSS/HTML and connected it to Stripe APIs and other cloud services to provide 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 using 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%.

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 Amazon Web Services increasing 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 to increase click rate by 55%

Web Development Committee Chair

September 2023 – Present

- Designed and implemented 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.