

# Oliver Caleb Wu

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## EDUCATION

### University of Michigan

Ann Arbor, MI

### School of Literature, Science, and the Arts

Aug 2021 - June 2025

Bachelor of Science in Computer Science

**GPA: 3.2/4.0**

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

**Languages:** C++/C, Python, Node.JS, Typescript, Assembly

**Tools:** WSL, git, Jira, Bitbucket

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

**Front End:** HTML/CSS, React, Bootstrap

## WORK EXPERIENCE

### Boncor Medical LLC

Bingham Farms, MI

*Backend Software Engineer Intern*

**May 2023 - Present**

- Optimized API calls and structure to decrease memory usage by 50% and speed up query times by 45%
- Created a geolocation bubbles feature using TypeScript, MongoDB, and REST APIs, allowing users to modify, and receive notifications upon entering or leaving 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 along with complete documentation
- Built a fall detection algorithm using 6-DOF data and C++ capable of integration with fitbit and ios
- Designed and implemented a 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%.
- Performed data management by sorting, compiling, and analyzing data from various sources.

## 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

### Vietnamese Student Association

Ann Arbor, MI

*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%

## 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.