

Oliver C. Wu

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Ann Arbor, MI

Aug 2021 - Dec 2024

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

SKILLS

Languages: C/C++, Python, Javascript, Java, Typescript

DevOps: CI/CD Pipelines, Linux, Git

Frontend: HTML/CSS, React, Figma, Next.js, Material-UI

Backend: Flask, AWS, Azure, SQL/NoSQL DB, API Design

Certifications: Google AI Essentials, IBM Z/OS Mainframe Practitioner Specialization, Information Privacy Security (IPS)

WORK EXPERIENCE

Ford Motor Company

Software Engineer Intern

Dearborn, MI

May 2024 – Aug 2024

- Improved Vehicle Software API security coverage by 25% boosting code quality and security
- Designed and integrated an API, database, and security algorithm for Electric Vehicle modules with full documentation

University of Michigan Engineering Career Resource Center

Website Design Intern

Ann Arbor, MI

Sep 2023 – Mar 2024

- Refactored and implemented a new ECRC website, boosting available resources for students by 30%

Boncor Medical LLC

Backend Software Engineer Intern

Bingham Farms, MI

May 2023 - Aug 2023

- Automated end-to-end user testing by leveraging Node.js and Auth0 APIs, increasing coverage by 85%
- Optimized API to decrease memory usage by 50% and speed up query times by 45%
- Created a geospatial mobile app feature using TypeScript, MongoDB, and REST APIs boosting app store downloads by 15%

Software Engineer Intern

May 2022 - Sep 2022

- Built AI chatbots with multiple Azure Web Services to automate customer support, saving 10 hours of labor per month
- Architected IRB and HIPAA compliant databases handling vital patient data by leveraging MongoDB and API integration

Northville Academic Games

Freelance Web App Product Creator

Northville, MI

Jun 2020 – Apr 2022

- Created a multi-player app with HTML/CSS, Java, JavaScript, and MySQL used by 500+ students
- Hosted and maintained the application on AWS with multi-tier real time communication

PROJECTS

Searchify.AI | Python, Flask, React, LangChain, Gemini 1.5

- Utilized Gemini to build an AI song recommender based on a user's surroundings and music taste

Codemap.AI | Python, SQL, GPT

- Created a code mapper to create ASCII diagrams of dependencies between functions and files in codebases using Gen AI

CAMPUS LEADERSHIP

Union of Vietnamese Student Association Midwest (UVSA-Midwest)

WEB Committee Director

Ann Arbor, MI

Jul 2024 – Present

- Leading a team of 6 in developing mobile and web applications for a 600-person conference

App Development Committee Chair

Sep 2023 – Apr 2024

- Built a mobile app utilizing Javascript, React, and Firebase for UVSA-Midwest that seamlessly supports 600+ users

University of Michigan Public Relations Chair

Oct 2021 – Apr 2024

- Connected with 70 organizations to execute 32 collaborative events across the U.S
- Redesigned an immersive website for the Association, boosting click rate by 55%