Wayne He

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Education

University of Michigan – Ann Arbor **Aug 2022 - May 2026**
BSE Computer Science, Minor in Electrical Engineering Bachelor of Engineering
4.000/4.000 GPA

Relevant Coursework: Data Structures and Algorithms, Web Systems, Operating Systems, Quantum Computing, Intro to Computer Organization, Foundations of Computer Science

Experience

Tour.video **Dec 2022 - Aug 2023**
Full Stack Engineering Intern Remote

Tour.video is a YC startup that embeds interactive virtual tours on leasing websites, allowing apartments to automatically gather new leads.

- Spearheaded development on custom analytics dashboard to analyze traffic of **over 200k visitors monthly** using React and Supabase.
- Launched a real-time calling and messaging feature leading to **2 new enterprise customers**, connecting to over 2000 downstream users.
- Designed a customizable notification system to dynamically react to user behavior. Created **reusable components** to simplify future development and **improve maintainability**.

Projects

Cascade **Sept 2024**
https://devpost.com/software/cascade-xrfscu

- Created a Google Breadboard workflow that used **two Gemini models** to generate functional HTML/CSS code on-demand. **Won best Generative UI at MHacks 17.**
- Developed **multi-threaded backend** using Flask and MongoDB to generate/store images from code snippets and used a **custom-trained Siamese neural network** to compare them.

Artificial Intelligence, Computer Vision, Cloud, Next.js, Heroku

Bloch M **May 2024 - June 2024**
https://ecpii.github.io/bloch-m/

- Used Vue and Three.js to create a **3D visualization** of the Bloch Sphere on the web, allowing for real-time interactivity and computation.
- Created **parameterizable animations** to teach unitary gates' effects on quantum systems in the University of Michigan's Quantum Computing course.

Skills

Web Frameworks
React, Vue, HTML/CSS

Languages
Rust, Python, C++, JavaScript

CLI Tools
git, nvim, make, CMake

Backend Development
Flask, Supabase, MongoDB

Cloud
Heroku, Vercel

WebAssembly
wasm-pack

Interests

Founder & President of Michigan Tetris **President of Michigan Magic**