

Haotian Wang

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EDUCATION

University of Notre Dame | *M.S. in Computer Science* | GPA: 4.0/4.0 | Notre Dame, IN, 05/2026
Parsons School of Design | *B.F.A in Graphic Design* | New York, NY, 05/2024

WORK EXPERIENCE

Mirastorm, New York, NY | Jan 2025 - Present

Software Engineer Intern

- Front End and iOS development for a photographer-matching app (**Typescript, React Native, MongoDB, Node.js, Git**), engineered home page and integrated backend endpoints, conduct unit tests. Consulted on development and product research.

Tweeds, Notre Dame, IN | Nov 2024 - Present

Software Engineer Intern

- Front End Development for AI publishing software, Engineered key components(**MongoDB, Express, React, Node.js**).
- Consulted on software development, design, market and product research. Development Lead for a team of 7.

Global AI, New York, NY | Jun 2023 - Aug 2023

Back-End Software Engineer Intern

- Developed a **Python** predictive model(**Pandas, Numpy, Docker**) to forecast the prices of Lithium Carbonate&Hydroxide.
- Engineered a **Python** dashboard(**React, Flask**) to monitor lithium market trends, ESG metrics, and real-time news updates.
- Developed and deployed an **iOS** app with AI response, voice synthesis, and lip-sync video. Optimized response times by 30%.

Parsons School of Design, New York, NY | Oct 2023 - May 2024

Computer Programming Tutor

- Mentored and consulted 100+ peers in Full-Stack development, modern frameworks(**React**), and building **RESTful APIs**.

PROJECTS EXPERIENCE

Java Web Service Ticket Recommendation System | *Full-Stack* | Mar 2023 - May 2023

- Developed an event recommendation app (**React**) with **Java servlet REST APIs**. Integrated **MySQL & MongoDB**, cutting query time by 50%. Built user authentication, admin panel, and deployed on **Amazon EC2**. Unit/load testing (**JUnit/JMeter**).

Go Web Service Real-Time Budgeting App | *Full-Stack* | Sep 2024 - Oct 2024

- Developed a real-time budgeting app (**Go** backend, **Vue** frontend). Built web service(**RESTful APIs, WebSocket**), reduced response time by 20%. Integrated **MongoDB**. Conducted unit and load tests(**Go's** unit tests, **JMeter**), deployed on **AWS**.

Chip 8 Emulator in **C** | Oct 2024 - Nov 2024

- Built a CHIP-8 emulator(**C**), replicating the CPU, memory, input, and display systems. Integrated CHIP-8 instruction set.
- Optimized the main loop for constant-speed fetching, decoding, and executing of instructions. Tested and debugged(**GDB**).

ACTIVITIES

University of Notre Dame, Notre Dame, IN

Technology Consultant

Dec 2024 - Present

- Consulting on software development, research and developed prototype, competing in McCloskey New Venture Competition.

Research Assistant | Jan 2025 - Present

- Software development at the EPOCH Research Lab for Mozilla Computing Grant, leading a team of 10 for public engagement.

CS for good | Jan 2025 - Present

- Led a team of 7 to develop database and inventory systems from scratch for tracking community farm's grands and products.

Computer Club | Jan 2025 - Present

- Developed and maintained the website for the Student Chapter of the Association for Computing Machinery.

SKILLS

Database/Cloud: MySQL, MongoDB, Firebase, SQLite, AWS, Docker

Languages/Tools: Python, Java, C, C++, JavaScript, TypeScript, Go, Git, JMeter, JUnit, Figma, Adobe Creative Cloud

Framework/Web Tech: React, Angular, Vue, Vite, Flask, Node, Express, Next, Spring, HTML, CSS, Webpack, Gulp, Babel