

Mei Huang

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EDUCATION

Rensselaer Polytechnic Institute

Troy, NY

Bachelor of Science in Computer Science, Information Technology and Web Science

Aug. 2021 – May 2025

- GPA: 3.85/4.0 — Magna Cum Laude
- Relevant coursework: Algorithms, Operating Systems, Database Systems, Network Programming, Principles of Software, Data Structures, Computer Organization, Web Science Development, Linear Algebra

EXPERIENCE

Software Engineer Intern

May 2025 – Sep. 2025

Chess.com

New York, NY

- Implemented new features in Vue and PHP for Chess.com's learning platform, including smarter course recommendations in Game Review, collaborating closely with backend engineers to ensure seamless integration.
- Delivered production-level fixes and UI enhancements across the Learn platform; built comprehensive Playwright tests and participated in code reviews to uphold code reliability and maintainability.

Software Engineer Intern

Feb. 2025 – May 2025

Troy Web Consulting

Cohoes, NY

- Wrote and maintained 100+ automated tests using Playwright for a large-scale government application, reducing manual QA workload and improving release confidence across fast-paced development cycles.
- Worked on a large Laravel and Expo-based virtual moving survey platform; resolved critical issues in live session components and file transfer systems, improving reliability for remote customer interactions.
- Designed and launched an activity tracking app for Little Lake Park using React and Firebase, enabling frictionless data logging without login, replacing paper-based record-keeping and improving data archiving.

Software Engineer Intern

Aug. 2023 – Jan. 2024

Rumble Development

Acton, MA

- Developed 4 critical modals using Angular and TypeScript, including live view, playback, and camera info modals, significantly improving user experience.
- Migrated backend infrastructure to a new server environment using Python, improving processing efficiency and reducing development downtime by approximately 30%.
- Implemented Firebase cloud functions for server-side processing and authentication, enhancing backend scalability and reducing server response times by 25%.
- Redesigned and tested the media player interface with Ionic and RxJS, adding features like full-screen mode and customized controls to improve user satisfaction.

Open Source Developer

Jan. 2024 – Present

Rensselaer Center for Open Source

Troy, NY

- Led a team of 20+ developers to build RPI EventHub, a platform that increased campus event visibility by 40% and boosted participation by 30% among student organizations and clubs.
- Collaborated with the Office of the President to expand the platform's reach across student organizations and departments, gaining support from key stakeholders.
- Designed RESTful APIs and implemented authentication using JWT and OAuth 2.0 with MongoDB, React, and Node.js, ensuring secure, scalable deployment with CI/CD pipelines using Docker and Railway.

PROJECTS

Renewable Energy Data Pathfinder | *MongoDB, Express, React, Node.js, Azure*

Jan. 2023 – June 2023

- Partnered with NASA to develop a web platform enabling over 1,000 community scientists to access and analyze renewable energy data, leveraging a modern tech stack for seamless data integration and user experience.
- Integrated NASA's Earth observation data with socioeconomic datasets, supporting data-driven research and advancing democratized data exploration.
- Improved back-end performance by 35% through database optimization in MongoDB and maintained 99.9% uptime with deployment on Azure Virtual Machines.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, C++, SQL, HTML/CSS, PHP, Assembly (MIPS)

Frameworks & Libraries: React, Node.js, Express, Angular, Vue.js, Three.js, Laravel, Playwright

Databases: MongoDB, PostgreSQL, Firebase

Tools & Methodologies: Docker, Git, Agile (Scrum), Railway, Figma, SVN