

MeiQiang Huang

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EDUCATION

Rensselaer Polytechnic Institute

Troy, NY

Bachelor of Science in Computer Science and Information Technology and Web Science Aug. 2021 – May 2025

- Relevant coursework: Rensselaer Center for Open Source, Linear Algebra, Data Structure, Web Science Development, Human-Computer Interaction Usability, Computer Organization, Principles of Software, Algorithms, Database Systems, Operating Systems, Introduction to Artificial Intelligence, Managing It Resources

EXPERIENCE

Course Assistant for Algorithm

Jan. 2024 – Present

Rensselaer Polytechnic Institute

Troy, NY

- Lead lab sessions and office hours, providing targeted support and guidance to over 50 students weekly on coursework and assessments.
- Support course instructors by assisting in the grading of homework, labs, and exams, ensuring timely and accurate feedback to students.

Software Engineering Intern

Aug. 2023 – Jan. 2024

Rumble Development

Acton, MA

- Streamlined remote work setup and workflow using Remote Desktop, RealVNC, VMWare, and SVN.
- Developed a Cross-Platform Ionic application that seamlessly integrates Firebase for real-time data management, Angular for front-end development, and RxJs for advanced data handling and interactivity.
- Contributed to the development and deployment of cloud functions, improving backend functionality and server-side processing.
- Participated in the setup and demonstration of the development environment for conference calls, showcasing the application's features and technical capabilities.

Full-Stack Developer

Jan. 2023 – June 2023

Rensselaer Polytechnic Institute

Troy, NY

- Partnered with NASA on a web app project to lower entry barriers for community scientists in renewable energy.
- Developed the front-end with React and Bootstrap, focusing on UX and compliance with 508 accessibility standards.
- Enhanced back-end with MongoDB for storage, API development, and deployment on Azure VM.

PROJECTS

RPI EventHub | *MongoDB, Express, React, Node.js, Azure*

Jan. 2024 – Present

<https://github.com/MeiH10/RPI-EventHub>

- Led development of RPI EventHub, orchestrating team efforts, overseeing project direction, and delivering a comprehensive platform for campus event management, fostering community engagement.
- Developed a secure authentication and authorization system using MongoDB, React, and Node.js, ensuring data privacy and user integrity for RPI community members.
- Contributed to frontend and backend development, UI design, API creation, and Azure deployment for seamless user experience and efficient system performance.

Solar Roulette (HackRPI Hackathon) | *HTML, CSS, JavaScript, API, Bootstrap, Three.js, Selenium* Nov. 2022

<https://github.com/Bowserinator/SolarRoulette>

- Worked in a team of 4 to develop an interactive educational site that displays real-time data on various bodies in the solar system using Solar System OpenData API, Bootstrap, Three.js, and Selenium.
- Presented the final product to other participants and received overwhelmingly positive feedback.
- Conducted user testing and received 2nd place prize for best overall project.

TECHNICAL SKILLS

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

Frameworks: React, Angular, Node.js, Vue.js

Databases: MongoDB, Postgres, Firebase

Developer Tools: Git, GitHub, VS Code, SVN, Remote Desktop Connection, RealVNC, VMWare

Methodologies: Agile (Scrum)