

Jimi Xia

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EDUCATION

Rensselaer Polytechnic Institute

Aug 2022 – Dec 2025

Bachelor of Science in Computer Science (GPA: 3.62/4.0)

Troy, NY

- Data Structure, Computer Architecture, Software Engineering, Algorithms, Operating System, Database System

EXPERIENCE

Rensselaer Center for Open Source

Aug 2024 – Dec 2024

Open Source Developer

Troy, NY

- Developed on secure workload identity management in hybrid cloud environments, by integrating SPIFFE/SPIRE frameworks to streamline authentication and provisioning processes.
- Leveraged Docker to containerize applications, ensuring consistent environments across development and production, and optimized deployment workflows in cloud-native and hybrid cloud settings.

Electrophoretic Mass Spectrometry Technology (EMAST) Corp.

Jun 2024 – Aug 2024

Software Engineer Intern

Auburn, CA

- Designed and implemented Python-based solutions to process time-of-flight mass spectrometry data, enhancing the speed and precision of recombinant antibody therapeutic analysis by 20%
- Developed and integrated C++ software for easy hardware communication with the mass spectrometer, allowing for real-time data collection and easier workflow in laboratory operations

Common Point Queens

Jun 2023 – Aug 2023

STEM Camp Instructor

Queens, NY

- Created detailed Python and C++ laboratory assignments that implemented core concepts in algorithms, data structures, and advanced problem-solving techniques
- Engineered a compact autograding system using Makefiles to automate the compilation, execution, and validation of student code submissions, speeding up evaluation/grading time by 75%

PROJECTS

Guitar Chord Visualizer and Transition Practicer | *HTML, JavaScript, SVG*

Spring 2025

- Developed web tools using HTML, JavaScript, and SVG to visualize extended guitar chords and practice chord transitions with randomized pairs and a 30-second timer

NYC Basketball Courts Finder | *HTML, JavaScript, Leaflet, Turf.js, GeoJSON*

Spring 2025

- Developed an interactive web map that displays NYC basketball courts using open data, custom markers, integrated search, and borough filtering powered by Turf.js with NYC borough boundaries

Moments | *JavaScript, React, MongoDB, Git*

Fall 2024

- Developed a interactive mobile application allowing for Users to record and upload videos with public/private flags centralized using Vimeo's API
- Integrated a friend list system allowing for addition and subtraction of friends organized through MongoDB

CleanSweep | *JavaScript, React, Git*

Spring 2024

- Created a pollution-reporting interface and integrating location services to streamline community cleanup coordination and enhance hotspot reporting accuracy

¢Track | *JavaScript, React, Git*

Fall 2023

- Developed a React Native financial app with login, budgeting, subscription tracking, and spending analytics tools, enabling insights and improved financial management through visualized habits and transaction tracking

HackRPI Mobile Application | *JavaScript, React, Git*

Fall 2023

- Built HackRPI's mobile app "Prizes" page, image carousel, and event schedule clock animations using JavaScript, React, and Git, enhancing UX with intuitive navigation and engaging visuals for hackathon planning

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, SQL (Postgres), Typescript, Go, HTML/CSS

Tools: Kubernetes, Git, Docker, VS Code, Eclipse, React, Node.js, JUnit, Flask, Pandas