

Danny Zou

Staten Island, NY | dzou3814@gmail.com | (917)-972-9909 | [LinkedIn](#)

EDUCATION

Rensselaer Polytechnic Institute | Troy, NY

August 2022 – May 2026

Bachelor of Science in Computer Science (Expected Graduation: May 2026)

- **Relevant Coursework:** Computer Science I, Data Structures, Foundations of Computer Science, Computer Organization, Introduction to Algorithms, Principles of Software
- **Cumulative GPA: 3.4**

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Rust, HTML, CSS, Python, C++,

Frameworks and Libraries: ReactJS, ExpressJS, TailWindCSS, NextJS, Leptos, Django

Tools: Git, Selenium, NodeJS, Docker, Redis, Kubernetes

Databases : MongoDB, PostgreSQL

Operating Systems (OS): Linux(Fedora), Windows, Mac OS

EXPERIENCES

FinVis | Rensselaer Center For Open Source (RCOS)

September 2023 – December 2023

(Skills Used): Next.js, Express.js, Node.js, Next-Auth.js, MongoDB, Typescript, TailWindCSS, Docker

- Contributed to the development of FinVis, an investment tracker and educational tool along a team of 8.
- Developed visually appealing, engaging and especially interactive user interfaces.
- Efficiently deployed scalable type-safe APIs using tRPC .
- Employed version control with git for project tracking and organized workspace.

LibreTunes | Rensselaer Center For Open Source (RCOS)

January 2024 – May 2024

(Skills Used): Rust, PostgreSQL, Leptos, CSS, Docker

- Contributing to the development of LibreTunes, a shared music player web app as a Full-Stack Rustacean.
- Leveraged foundational expertises in web development to discern analogous concepts across diverse languages and frameworks, facilitating rapid acclimatization to new environments.
- Pioneered innovative music playback and queue management features by orchestrating advanced algorithms and implementing robust data structures, thereby enhancing user satisfaction and optimizing system efficiency..
- Conducted user studies and fostered collaborative discussions with team members to integrate personal insights into the development of future implementations aimed at satisfying user needs.

Intro to Engineering Design Teaching Assistant | Rensselaer Polytechnic Institute

August 2022 – Present

- Demonstrated strong communication and interpersonal skills in assisting students from diverse backgrounds.
- Instructed students in the proficient utilization of diverse machinery, imparting practical skills and fostering a comprehensive understanding of technical processes.
- Mentored students in conceptualizing and crafting innovative projects, fostering their creativity and hands-on problem-solving skills.

PROJECTS

GitHub - danny-zou18 | DevPost - danny-zou18 | [GitLab](#)

DevMan (ConUHacks VIII - Recipient of CSE's DevSecOps Challenge Award) |

January 20 - 21st, 2024

(Skills Used): Python, GitLab API, LLM Prompt Engineering

- Participated in a 24-hour hackathon hosted at Concordia University with 800+ other participants, where I became the recipient of Canadian Communications Security Establishment's DevSecOps Challenge Award.
- Developed a DevSecOps pipeline implementation, using "Cal.com" as a demo. Along with the pipeline, we implemented a AI pull request reviewer by interfacing Python with GitLab API to feed a locally run llama.cpp model all open or new pull requests to generate responses.

Improv (Personal Project) |

July 2023 – Present

(Skills Used): React.js, Express.js, Node.js, MongoDB Atlas, TailWindCSS

- Working on Improv, a Self Improvement Web Application that leverages a game-like environment for motivation.
- Developed visually compelling and responsive user interfaces.
- Designed and implemented RESTful APIs leveraging Express, enabling the effective management of user data and interactions with the database.
- Implemented a automated CI/CD testing environment using Github workflow and Eslint.
- Employed version control with git for project tracking and organized workspace.