

Danny Zou

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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, Operating Systems, Cognitive Modeling
- **Cumulative GPA: 3.52**

SKILLS

Professional Certifications: AWS Certified Cloud Practitioner Certification

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

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

Tools: Git, NodeJS, Docker, Redis, Amazon Web Services(AWS), Google Firebase, Unity, Vim, VSCode, NeoVim

Databases : MongoDB, PostgreSQL

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

Skills: FullStack Development, Artificial Intelligence, Machine Learning, Blockchain Development, DevOps, CI/CD

EXPERIENCES

Software Developer | Rensselaer Union

June 2024 – Present

React, PostgreSQL, Django, Docker, Linux

- Developing and maintaining essential Union projects such as the Club Management System 3.0, Union homepage, and Union elections website.
- Collaborating with student government and administration office staff to learn about business requirements and applying them to relevant software.

Project Lead/Mobile Developer | LifeScape @ RCOS

June 2024 – Present

React Native, Typescript, PostgreSQL, Firebase, Docker, Unity

- Spearheaded the development of a mobile application aimed to transform users personal growth journey into an engaging and immersive experience leveraging a gamified environment.
- Leading a team of 6 developers to build and maintain said mobile application using React Native, ensuring adherence to coding standards and best practices.
- Achieved significant user adoption and positive feedback, demonstrating the project's impact and value.

Software Developer | LibreTunes @ RCOS

January 2024 – May 2024

Rust, PostgreSQL, Leptos, CSS, Docker

- Developed and implemented interactive user interfaces to enhance user experience.
- Pioneered music playback and queue management features utilizing advanced data structures and algorithms.
- 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 – May 2024

- Taught students proficient and safe utilization of diverse machinery, imparting practical skills.
- 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](https://github.com/danny-zou18)

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

January 20 - 21st, 2024

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.

Discord Productivity Bot

May 2024 – Present

Python, Discord API, AWS CDK, Lambda & DynamoDB

- Developed a productivity bot for Discord, enabling users to create and retrieve tasks, manage schedules, and receive reminders.
- Utilized AWS CDK for infrastructure as code, ensuring scalable and maintainable deployment on the AWS cloud.
- Implemented server-less architecture with AWS Lambda for efficient and cost-effective command execution.