

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: Amazon Web Services(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, AWS CDK, AWS Lambda, Google Firebase, Unity, Vim, VSCode, NeoVim

Databases : MongoDB, PostgreSQL, DynamoDB

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

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, used by the majority of the RPI community(~5000 users).
- 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.

Open Source Community Mentor | Rensselaer Center for Open Source

Sep 2024 – Present

- Mentored students in the fundamentals of open source contribution via version control and programming.
- Evaluated/graded student commits, providing feedback on code quality, structure, and adherence to best practices.
- Conducted workshops and held one-to-group sessions to assess progress and provide targeted support.

PROJECTS

GitHub - danny-zou18 | DevPost - danny-zou18

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.

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 my team 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 an 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.