

# 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

**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, 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 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.