# 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
- **Cumulative GPA: 3.4**

## 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
**Databases** : MongoDB, PostgreSQL
**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.
- 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**
- 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, 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](GitLab)

**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.