

# Jesse Cui

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## EDUCATION

Rensselaer Polytechnic Institute

Troy, NY

B.S. in Computer Science (GPA: 3.5)

Sep 2020-May 2024

**Relevant Coursework:** Data Structures, Algorithms, Discrete Math, Computer System, AI & ML, Cryptography and Network Security, Graph Theory, Operating System, Database Systems, Linear Algebra, AI & Blockchain

## EXPERIENCE

Kuumba Health LLC.

(Remote)

Web Design Intern

July 2023 - Aug 2023

- Designed and deployed a new landing page through convertkit theme with [HTML](#) and [CSS](#) extensions; integrated new SEO optimization resulting in ~27% increased unique visitors
- Acted as lead for intern team to oversee project planning and task management; facilitated clear and effective communication within the team, and monitored overall quality of work

## OPEN SOURCE CONTRIBUTIONS

**ACMAS: Software Engineer** (Free to use back-test, back-work database for students and alumni to upload and view coursework and tests from any school course)

- Implemented OCR capability to automate database operations and content storage/retrieval along with better search engine optimizations with [Python](#), [Django](#), [PostgreSQL](#) and [Docker](#)
- Revamped the database model to better suit the usage of OCR and search engine implementations

**Exalendar: Front-End Developer** (Academic scheduler enabling professor to share course deadlines with students in one centralized calendar)

- Developed a novel login page migrated from the previous vanilla Javascript model, and leveraged [Google API](#) for ID token verifications during account registration with [React](#), [Node](#), [Express](#) and [Tailwind](#)
- Documented development standards and outlined file guidelines allowing easier navigation of the project

**LEGUP: Software Engineer** (Interface that enhances student's understanding of fundamental of logical principles through puzzle solving with decision trees)

- Improved UI/UX by leveraging [Javaswing](#) while incorporating new UI capability such as [XML](#) file discover and opening; addressed more than 30 bugs to ensure a smooth and error-free user experience
- Conducted rigorous unit testing using [JUnit](#), ensuring the robustness of the application

## PROJECTS

Simulated OS

- Developed a simulation of an operating system that completed thread functions, system calls, multi-programming support and calculated CPU wait times with [C++](#)
- Incremental algorithms includes first come first serve, shortest job first, round robin & shortest remaining time

## SKILLS

**Programming Languages:** Python, Javascript, C++, Java, C#, HTML/CSS, SQL, Haskell, x86 Assembly, Bash

**Frameworks/Libraries:** React, Node, Tailwind, Express, Django, Javaswing, PostgreSQL

**Tools:** Git, Linux, Latex, Docker, MySQL, MariaDB, VSCode, IntelliJ, Unity, Bootstrap