

Josiah Riggins

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EDUCATION

Rensselaer Polytechnic Institute

B.S in Computer Science

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Programming Languages, Computer Organization

Troy, NY

May 2027

TECHNICAL SKILLS

Languages: Python, SQL, Java, TypeScript, JavaScript, C/C++, HTML/CSS

Backend: FastAPI, Node.js, SQLAlchemy, Supabase

Frontend: React, Next.js, Tailwind CSS, Chart.js

Databases: PostgreSQL, SQLite

Testing: JUnit, Cypress

Developer Tools: Git, Docker, Github, CI/CD, RESTAPI's

EXPERIENCE

Lead Open Source Software Engineering Intern

Aug 2025 – Present

Rensselaer Center for Open Source Software – YACS

Troy, NY

- Leading complete platform rebuild of course scheduling system serving 500+ RPI students, migrating from unmaintainable Vue monolith to decoupled FastAPI backend and React TypeScript frontend
- Created YAML-based configuration system that externalized environment settings and streamlined deployment, cutting onboarding time by 25%
- Optimized course data pipeline via import criteria rewrite, reducing import load from 89,661 courses to 2,702 reducing data volume by 94% and import time by 97%

Lead Programming Instructor

Jan 2025 – Mar 2025

Society of Hispanic Professional Engineers (SHPE)

Troy, NY

- Designed and led an interactive CLI-based Python game and lesson plan to teach 10+ core programming concepts, helping 6 students build foundational coding skills through guided collaboration
- Led a 3-member team through 10+ planning meetings, coordinating task assignments and resolving blockers to deliver a working MVP used by 20+ students within a 2-month timeline.

Open Source Software Engineering Intern

Jan 2024 – Apr 2024

Rensselaer Center for Open Source Software – Submittly

Troy, NY

- Led deprecation of a legacy theme system across 12 commits, removing 200 lines of dead code and simplifying UI architecture to improve long-term maintainability.
- Reviewed 20+ PRs by reproducing issues locally and providing feedback, reducing average review cycle from 5 days to 2 days
- Applied Agile methodologies through 20+ bi-weekly stand-ups, sprint task tracking, and iterative front end feature development in a large open-source system.

PROJECTS

GneissCash: Personal Financial History Analyzer | *Next.js, React, TypeScript, Supabase, Chart.js*

Jan 2026 – Present

- Built a needs-vs-wants classification engine that processes ~ 700 labeled transactions in < 5ms per run while sustaining 75% accuracy, enabling rapid regression testing of spend mix insights.
- Implemented multi-format bank statement parser supporting Discover CSV and Chime PDF formats with auto-detection and duplicate prevention via SHA-256 hashing

Revamp: AI powered webpage restyle tool | *Next.js, React, TypeScript, TailwindCSS, Vercel*

Dec 2025

- Built a full-stack AI tool using Next.js and OpenRouter API that modernizes legacy HTML to semantic HTML5 with Tailwind CSS, processing 7K+ lines in under 30s

LEADERSHIP & ACTIVITIES

Society of Hispanic Professional Engineers (SHPE)

Aug 2023 – Present

Senior Webmaster Committee Member & Advertisement Advisor

- Coordinated logistics for 20+ events, managing venue setup for 100+ attendees while staying within budget
- Spearheaded advertising campaign and coordinated distribution of 500+ flyers, increasing membership by 15%
- Mentored high school students in STEM through SHPE Jr, organizing workshops/events for 50+ participants