

Audrey Rentzepis

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EDUCATION

Carnegie Mellon University

Grad May 2028

B.S., Computer Science, Additional Major in Human-Computer Interaction

Relevant Coursework: Introduction to Computer Systems, Computer Vision, Principles of Functional Programming, Mathematical Foundations for Computer Science, Matrices and Linear Transformations, The AI Augmented Designer

PROFESSIONAL EXPERIENCE

Undergraduate Researcher

Pittsburgh, PA

Carnegie Mellon University

Mar 2026 - Present

- Designed and built a multi-tenant server that spins up isolated per-student Docker containers with browser-based VS Code (code-server), enabling a full C development environment over wifi on any device.
- Extended code-server with a custom TypeScript session-monitoring module that records login, window focus, tab visibility, and disconnect events to per-user JSONL logs for instructional debugging and integrity monitoring.
- Optimized container caching and resource allocation to handle high-concurrency student login spikes.
- Wrote provisioning tooling to automate container lifecycle, password generation, starter-code injection, user-to-port registry updates, and optional full environment resets.

Head Teaching Assistant for Introduction to Computer Systems (15-213)

Pittsburgh, PA

Carnegie Mellon University

Aug 2025 - Present

- Led a team of 15 TAs to ensure support across internal course infrastructure and student-facing services.
- Collaborated with faculty to design and refine course logistics, policies, and assignments for over 400 students.
- Gave weekly recitations and occasional lectures on Assembly, caching, memory management, and threading in C.
- Answered individual questions on a student Q&A site in order to identify misconceptions and resolve broken code.
- Resolved complex technical issues, guiding students through debugging concurrency bugs, memory errors, and more.

Web Development Intern

Madison, WI (Remote)

Fair Opportunity Project

May 2023 - Aug 2023

- Leveraged industry-standard processes (Scrum, etc) with Javascript and CSS to program and deploy free website services connecting volunteers to underprivileged students in need of guidance through application processes
 - Created consistent site graphics with Adobe Illustrator and revised site UI for uniformity and accessibility using Softr
 - Maintained and expanded site backend using Airtable
 - Presented suggestions leading to the development of a dedicated financial aid mentorship program
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EXTRACURRICULARS

Events and Outreach Unit Lead

Pittsburgh, PA

CMU User Experience Association

Aug 2024 - Present

- Co-organized a two-day event with workshops and interactive sessions for 125 students and 12 industry professionals
- Conducted user research and developed persona-driven UX concepts for campus organizations
- Prototyped a social media app focused on intentional communication for the XHacks 2025 hackathon

Managing Editor, Layout Team Lead

McLean, VA

Phoebus (Literary & Arts Magazine) - The Potomac School

Sep 2022 - June 2024

- Led editorial and production workflows for annual publications ([2023](#), [2024](#)), reviving the magazine from dormancy
 - Managed a \$5,000 annual budget, coordinating funding and timelines to produce 400+ printed copies per year
 - Designed and maintained layout systems for 50+ pages annually, ensuring consistency and efficient iteration
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SKILLS

Programming & Development: C, C++, Python, Java, Javascript, SML, Agile Development, Vibe Coding, DevOps, Docker

Tools & Design: Figma, Airtable, Solidworks, Adobe Creative Suite, Wireframing, UX Research, Excel

Core Competencies: Algorithms, Data Structures, Systems Engineering, Graphic Design, Machine Learning, Artificial Intelligence, Computer Vision, Databases, Data Science