

Matthew Anderson

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SUMMARY

Computational Biology and Computer Science senior at the University of Pittsburgh, with a certificate in Quantum Computing. A systems-thinker who thrives at the intersection of logical rigor and creative expression, and enthusiast of low-level architecture, high-level software design, and computational, biological, and quantum systems. Eager to leverage a diverse background in data science, web development, and systems engineering to create elegant and multi-disciplinary solutions to complex problems.

EDUCATION

University of Pittsburgh

Bachelor of Science

Majors: Computational Biology, Computer Science

Certifications: Quantum Computing and Information

Pittsburgh, PA

Expected Graduation: April 2026

GPA: 3.3

SKILLS

Technical Languages: C, Python, {Java, TypeScript}, SQL, Java, HTML, CSS, R, C++, Assembly, Embedded C

Tools & Infrastructure: Unix, Git, Docker, AWS, Google Cloud, {Microsoft, Adobe, Apple} Suite, Vim

EXPERIENCE

University of Pittsburgh

Undergraduate Teaching Assistant

Pittsburgh, PA

January 2024-Present

- Teach recitations and hold office hours for cumulative ~300 students in Intro to Operating Systems (CS1550) and Computer Organization and Assembly Language (CS0447); ~90% recitation/~50% office hours attendance
- Vast proficiency in systems and computer organization through instruction, including modification of the Linux kernel, simulation and analysis of page tables and virtual memory, CPU simulation using circuit building software, reading and writing assembly, and more

Quantum⁵

Data Analyst and Integrations Engineer

Remote

June 2024-Present

- Operated on large amount of data from multiple sources using [Knowi](#)
- Created dashboards that provided crucial employee training insights and greatly increased onboarding and completion efficiency
- Built applications for Kubernetes cluster that automated data collection via API integration and webhooks

Alpha Tau Omega, Kappa Psi Chapter

Greek Sing Chair

Pittsburgh, PA

January 2025-December 2025

- Scheduled and led practices, organized events, and generally co-managed group of ~40 students
- Choreographed/orchestrated ~70% of 10-minute dance number, edited audio and background visuals

[Surreality Lab](#)

Frontend Web

Pittsburgh, PA

March 2024-August 2024

- Rebuilt the frontend of the Surreality Lab at Pitt's website

UPMC Hand Therapy Conference

Full Stack Web

Pittsburgh, PA

October 2025

- Built the front end and file-hosting backend for a responsive web application that held educational handouts and presentations for the 9th Annual Pittsburgh Hand Therapy Conference, on a 1-week rush order

[LogicAp](#)

Full Stack Web

Pittsburgh, PA

- Co-engineered a full-stack circuit simulation platform from an existing codebase using TypeScript and Svelte, enabling real-time modeling of complex digital logic
- Developed custom backend compilation engine to handle nested subcomponent circuits and wiring tunnels