

SUMMARY

Incoming undergraduate with hands-on experience in research driven by deep technical exploration and impactful innovation. Worked with highly endowed universities on multiple research projects and pedagogical development.

EDUCATION

Carnegie Mellon University

B.S. in Business Administration & Artificial Intelligence

Expected Graduation: Spring 2029

Pittsburgh, PA

WORK EXPERIENCE

Machine Learning Analyst

OpenAI & Mercor Corporation

Jan. 2025 – Apr. 2025

Remote

- Analyzed generative pretrained transformers (GPTs) for code quality and reasoning accuracy.
- Reviewed competitive programming tasks using line-of-reasoning models.

Teaching Assistant, MIT BWSI Quantum Computing

MIT Lincoln Laboratory

Jan. 2024 – Aug. 2024

Lexington, MA

- Lectured on quantum mechanics/computing/algorithms to 32 top students selected from 350+ applicants.
- Supported teams implementing quantum algorithms from academic papers.
- Helped students transition from classical to quantum computing workflows.

Research Assistant, UGA Optics

University of Georgia, Abate Nano Optics Group

Aug. 2023 – Jul. 2024

Athens, GA

- Simulated bent-molecule interactions using real-time molecular dynamics (10,000 particles).
- Developed simulation in C with custom many-body physics models under Dr. Yohannes Abate's supervision.
- Research contributed to nanoscale optics studies and infrared spectroscopy models.

PASSION PROJECTS

Eule: A multi-modal transformer for CCTV footage

A multi-modal transformer model that aims to quantify CCTV footage

May 2024 – Dec. 2024

- A general, feature-extraction & embedding-space based model that's optimized to extract data.
- Vid2JSON benchmark performance currently matches state-of-the-art (t. TwelveLabs, 93%; Ours, 92%)!
- Raised \$120k in Microsoft grants — technologies used: TensorFlow, CUDA, numpy, SciPy

Towards the Commercialization of Quantum Computers

A research project partnered with the University of Washington.

Jul. 2023 – Apr. 2024

- Collaborated with the University of Washington on a research project optimizing low-cost quantum computers.
- Topics of research include: optimization of low-field nuclear magnetic resonance (NMR), design and implementation of NMR devices, and chemical analysis (abnormal nuclei, C-13).

ACHIEVEMENTS

UCLA Regents Scholarship

Apr. 2025

- Scholarship awarded to 75 out of 146,276 applicants. Awardees "are selected on the basis of demonstrated academic excellence, leadership and exceptional promise."

MIT Berman Award

Aug. 2023

- Awarded to 1 in 32 of 2,400 applicants to the BWSI Quantum program. Chosen by the instructor for leadership, initiative, and a passion for exploring advanced quantum topics beyond the curriculum.

SKILLS & INTERESTS

- **Languages:** Java, C/C++, Python, React, LaTeX, C#/.NET, Rust, NodeJS, HTML/CSS/JS
- **Characteristics:** Problem-solving, critical thinking, creativity, adaptability, initiative, and leadership.
- **Interests:** Weightlifting; Composting; Hiking; Traveling; Fishing; Skiing; *Frasier*