

Luca Borletti

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EDUCATION

Carnegie Mellon University – School of Computer Science *August 2021 – Present*

- B.S. in Computer Science, Concentration in Machine Learning
- GPA: 3.95, Dean's List, Graduating in May, 2025
- Notable Coursework: Distributed Systems, Advanced Deep Learning, Deep Learning Systems

PROFESSIONAL EXPERIENCE

Fundusol – Co-founder, Lead ML/Software Engineer *October 2021 – Present*

- Led a team of 5 engineers to develop a suite of research-based [Agrivoltaic system simulators](#)
- Secured \$60,000 in grants from [Stanford's TomKat Center](#) and the [U.S. Department of Energy](#)
- Acquired \$100,000 in initial revenue through PV system design consultations across the USA

Citadel Securities – Software Engineering Intern *June 2024 – August 2024*

- Optimized C++ code for a high-frequency trading application, reducing average latency by 75%
- Unlocked \$10,000 per day in additional trading opportunity through performance improvements

Amazon Web Services – Software Engineering Intern *June 2023 – September 2023*

- Developed server scanning tool to visualize vulnerabilities and patch deployments across 10,000 production servers to save development team 10 hours per week through automation

Carnegie Mellon University – TA for Great Theoretical Ideas in CS *September 2023 – May 2024*

- Conducted weekly 1-hour classes and held office hours for undergraduate students
- Organized and led exam preparation sessions, improving student performance

SELECTED PROJECTS

T-AI – 1st place TartanHacks Project *February 2023 – February 2024*

- Developed an [award-winning](#) LLM question-answering app for YouTube videos
- Expanded into a Google Chrome Extension, gaining nearly 600 downloads and being [featured in the Chrome Web Store](#)
- Partnered with a leading [Sri Lankan educational platform](#) to expand the tool's reach and impact

Panda Bot – Research Project under [Professor Anil Ada](#) *September 2023 – Present*

- Developed a chain-of-thought, multi-agent RAG system to assist over 20 instructors for CMU's 15-251 in answering thousands of student questions more efficiently each semester

Ensemble Similarity – Advanced Deep Learning Project *March 2024 – May 2024*

- Applied novel technique—randomized weighted majority algorithm—to the "automated Spymaster" research problem, resulting in a [27% improvement](#) from previous state-of-the-art

Point & Prove – HackCMU Project *September 2022*

- Created a [web app for teaching constructive logic](#) and was invited to present to CMU's 15-217

SKILLS

Programming Languages..... Python, C++, TypeScript, Go, SML

Areas of Expertise..... Data Analysis & Visualization, Applied ML, ML Systems Engineering, Full-Stack Development, UI & Graphic Design