Luca Borletti

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ACADEMIC PURSUITS

Carnegie Mellon University – School of Computer Science   *August 2021 – Present*
- GPA: 3.97 / 4.0, Dean's List, Graduating May, 2025
- B.S. in Computer Science and Concentration in Machine Learning
- *Notable Coursework:* Distributed systems, Advanced Deep Learning, Algorithm Design/Analysis

Teaching Assistant for 15-251 – "Great Theoretical Ideas in CS"   *September 2023 – Present*
- Developed an LLM/RAG-based tool for teaching assistants to answer online questions

WORK EXPERIENCE

Fundusol – Co-founder, Lead Software Engineer   *October 2021 – Present*
- Led team of four in developing Agricultural/photovoltaic modeling software that won a $50,000 grant from the Stanford TomKat Center and a $10,000 grant from the Department of Energy
- Developed company website that has led to $15,000 in revenue

Amazon – Software Engineering Intern   *June 2023 – September 2023*
- Developed patching and vulnerability detection tool that scans 10,000 EC2 servers per day
- Created a secure web application to interface with the tool that saves ELB teams 10+ hrs/week
- Presented to the AWS ELB organization, and onboarded an entirely separate team to the tool

T-AI – Co-creator, Software Engineer   *February 2023 – February 2024*
- Created question-answering tool for YouTube videos, that won first place at TartanHacks 2023
- Developed a Google Chrome Extension for the tool that has nearly 1,000 downloads
- Partnered with largest Sri Lankan educational platform and released to thousands of students

Gallus Insights – *Software Engineering Intern*   *May 2022 – August 2022*
- Developed mortgage data visualization app that served over 1000 active weekly customers

SELECTED PROJECTS

Point & Prove – HackCMU 2022   *September 2022*
- Developed web application for teaching constructive logic that was presented to CMU's 15-217 course, Logic and Mechanized Reasoning

ClickShare – TartanHacks 2022   *February 2022*
- Built video-conferencing web app that won *Best Use of Google Cloud* at TartanHacks 2022

Xylo – 15-112 Term Project   *Fall 2021*
- Invented calendar app for kids that combines xylophone visuals and audio with daily planning

SKILLS & INTERESTS

- Proficient in Python, TypeScript/React, Go, and Functional Programming
- Fluent in Spanish