

# Lucas Carlos Casas

lcc79@cornell.edu  
+1 (305) 849-7280

<https://lccasasp.github.io>

Ithaca, NY 14850  
1 Forest Park Ln

## EDUCATION

**Cornell University**, College of Engineering, Ithaca, NY  
B.S. – **Computer Science**, Minor in Business

**Expected May 2026**

### Relevant Coursework:

**CS 2110:** Data structures and algorithms (Java), **CS 2800:** Discrete structures, **CS 3110:** Data Structures & Functional Programming (OCaml), **CS 4700:** Foundations of Artificial Intelligence, **CS 4701:** Practicum in Artificial Intelligence, **CS 4780:** Intro to Analysis of Algorithms, **BTRY 3080:** Probability Models and Inference

## PROJECTS & WORK EXPERIENCE

### Lockheed Martin, *Software Engineering Intern*

**June - August 2024**

- Incoming intern with the Enterprise Business and Digital Transformation team to develop and optimize software.
- Worked in a team of 3 on a site to centralize Lockheed Martin research using Angular, .NET, and Python.

### Palantir Technologies, *Palantir Spring Launch*

**March 2024**

- Collaborated with Palantir engineers to work and learn about the Palantir AIP (Artificial Intelligence Platform).
- Engaged in learning workshops to improve technical interview and collaborative software skills.

### Flare, *Founder*

**Mar. 2023 - Present**

- Architected and developed Flare, an innovative open-source Python tool that aggregates energy and climate news from diverse sources, centralizing them into an SQLite3 database for easy access.
- Implemented advanced search capabilities leveraging Elasticsearch and Lucene, enhancing user experience through keyword matching, date filters, and a truthfulness algorithm that cross-references articles with IPCC climate report.
- Enhanced Flare's NLP capabilities through meticulous text preprocessing and machine learning techniques.

### Ventures Accelerated, *Software Fellow*

**Sep. 2023 - Present**

- Served as a technical liaison between Ventures Accelerated and participating startups.
- Collaborated with a dynamic team of entrepreneurs, providing software solutions tailored to startup requirements.
- Integrated the backend using AWS Lambda, improving API response speed by ~30% from the Flask counterpart.

### Cornell Hitch, *Cornell AppDev Hackathon Runner-Up Back-end Developer*

**Dec. 2022**

- Developed a Flask REST API application with Python to handle ridesharing to airports for Cornell students.
- Won the second-place award out of 30 teams for best backend.
- Supported student authentication with OAuth, SQL, andAlchemy.
- Collaborated in a team of four, using Git for front-end and back-end integration, resulting in a cohesive application.

### McDiver

**May 2023**

- Reduced Dijkstra's algorithm to solve a maze problem in Java, with an algorithm ranked 12<sup>th</sup> out of 620 students.

## SKILLS

**PROGRAMMING:** Python, Java, OCaml, Rust, JavaScript, SQL, (Familiar) C++

**LIBRARIES/FW:** Reactjs, Docker, SQLAlchemy, OAuth, Flask, REST APIs, Elastic, Git, GCP, AWS, LaTeX

**LANGUAGES:** Spanish (native), English (native), Catalan (proficient)

## LEADERSHIP

### Sin Fronteras Club, *President*

- Organized the running, planning, and coordination of all events related to Hispanic culture.
- Coordinated subgroups by delegating responsibilities to sub team leaders to ensure smooth operation.

### Cornell Prepare, *Prepare Mentor*

- Led and mentored a diverse group of international incoming students, facilitating transition to Cornell by organizing orientation activities, fostering a welcoming environment, and addressing cultural acclimation challenges.