

# Lucas Carlos Casas

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## ABOUT ME

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A Computer Science sophomore at Cornell University with a demonstrated passion for software engineering. Eager to apply my software engineering skills and academic knowledge in a real-world setting through a SWE internship.

## EDUCATION

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**Cornell University**, College of Engineering, Ithaca, NY  
B.S – **Computer Science**, Minors: Data Science, Business

**Expected May 2026**

### RELEVANT COURSEWORK:

**CS 2110:** Data structures and algorithms (Java), **CS 2800:** Discrete structures, **CS 3110:** Data Structures and Functional Programming (OCaml), **CS 193C** Client-Side Programming (JavaScript), **CS 106B:** Object Oriented Programming (C++), **CS 4700:** Foundations of Artificial Intelligence, **CS 4701:** Practicum in Artificial Intelligence.

## PROJECTS/WORK EXPERIENCE

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### 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.
- Automated the extraction and summarization of academic papers using the GPT-3 API, providing users with concise insights from extensive research in a legible article format.
- 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.

### Cornell Hitch, *Cornell AppDev Hackathon* *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.
- Built 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**

- Used Dijkstra's algorithm to solve a maze problem in Java, with an algorithm ranked 12<sup>th</sup> out of 620 students.
- Developed an algorithm that maximizes coin value collected in x steps, implementing DFS techniques.
- Worked with Game States, GUI applications, and multi-threading programming.

### *Open Minds*, *Internship*

**Mar. 2021 - Dec. 2021**

- Spearheaded collaboration efforts among top researchers and entrepreneurs to address critical global challenges.
- Organized a comprehensive symposium focused on the intersection of energy and climate challenges, overseeing event logistics, coordinating speaker engagements, and facilitating discussions to drive actionable insights.

## SKILLS

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

**LIBRARIES/FW:** Reactjs, Docker, SQLAlchemy, OAuth, Flask, REST APIs, Elasticsearch, Lucene, Git, Google Cloud Platform

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

## LEADERSHIP

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### *President*, Sin Fronteras Club

- 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.

### *Prepare Mentor*, Cornell University

- 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.