

# Lucas Carlos Casas

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## EDUCATION

Cornell University, College of Engineering – Ithaca, NY

Aug 2022 – Dec 2025

B.S. – Computer Science, Minors in Artificial Intelligence, Business

## SKILLS

**PROGRAMMING:** Python, Java, Typescript, C#, C, OCaml, Rust, JavaScript, SQL, C++

**LIBRARIES/FW:** React, Node, AWS, Angular, .NET, Docker, Elastic, OAuth, Flask, REST APIs, gRPC, Git, GCP

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

## PROJECTS & WORK EXPERIENCE

**Roblox, Software Engineering Intern** – San Francisco Bay Area, CA

May 2025 – Aug 2025

- Implemented Data Store soft deletion support by extending Roblox's distributed background processing framework.
- Shipped new backend gRPC APIs and access control logic to safely queue billions of items** to process deletions at scale, **safely deleting 10k+ records / sec per worker** across millions of games.
- Completed internship stretch goals including extensive metrics reporting, communicating with Creators, **completing security and legal reviews**, UI changes to the Creator Dashboard, and **leading a successful alpha launch**.

**Amazon, Software Development Engineering Intern** – New York, NY

Jan 2025 – Apr 2025

- Led end-to-end design and launch of an event-driven service** that proactively validates ~200 million daily abandoned-cart & browse-again email/push/SMS templates, helping safeguard >\$3 B in annual marketing revenue.
- Architected a scalable AWS-native pipeline** (Step Functions, Lambda, CloudWatch) running thousands of parallel validations in < 12 seconds - slashing mean time-to-detect issues with auto-remediation alarms.
- Built a custom SigV4-signed HTTP client with advanced cookie/header logic to access secure internal endpoints.
- Delivered ~23,000 lines of production Java/TypeScript code boasting test coverage over 94%.

**Lockheed Martin, Software Engineering Intern & Fall 2024 Co-op** – Remote

Jun – Dec 2024

- Developed for a large pre-existing web app using **Angular, .NET, and C#** as a full stack developer.
- Hyper tuned LLM's and integrated **RAG as a service** to interact with proprietary data and generate insights.
- Earned an extended part-time remote position for Fall 2024 based on exceptional performance within team.

**Flare, Founder**

Mar 2023 – Present

- Architected and developed Flare, an innovative open-source **Python** search engine that aggregates energy and climate news from diverse sources, centralizing them into a **NoSQL database** for easy access.
- Implemented advanced search capabilities leveraging **Elasticsearch and Lucene**, enhancing search through keyword matching, date filters, and a truthfulness algorithm that cross-references articles with IPCC climate report.
- Engineered a search engine that can sort and index 500 articles with an average speed of **78 ms**.
- Engineered an interactive globe using **React & ThreeJs**, leveraging linear algebra & trigonometry to visualize data.
- Deployed web application using cloud with **AWS and CI/CD pipelines** with development staging.

**Palantir Technologies, Palantir Launch**

Mar 2024

- Mentored by Palantir engineers to work and learn about the Palantir AIP (Artificial Intelligence Platform).
- Analyzed a pandemic simulation, leveraging **Palantir Foundry, AIP, and Typescript** to draw analytical insights.

**Cornell Ventures Accelerated, Software Fellow**

Sep 2023 – Present

- Collaborated with startups, providing software consultancy & code tailored to their requirements.
- Integrated a team's **AWS Lambda backend**, improving API response speed by ~35% from their **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 ~120 peers** for best backend.

## LEADERSHIP

**Sin Fronteras Club, President**

- Organized the running, financing, planning, and coordination of all campus events related to Hispanic culture.

**Cornell Prepare, Prepare Mentor**

- Led and mentored a diverse group of international incoming students, facilitating transition to Cornell.