Stefanie Rivera-Osorio

sar344@cornell.edu | LinkedIn | GitHub

Education

Cornell University **May 2027**

Bachelor of Science in Computer Science - *College of Engineering* *Ithaca, NY*

Relevant Coursework: Algorithms, Machine Learning, Optimization I & II, Engineering Statistics & Probability, Object-Oriented Programming & Data Structures, Natural Language Processing, Discrete Mathematics

Awards and Technical Skills

Awards: Amazon Future Engineer, Cornell Engineering Ryan Scholar
Programming Languages: Python, Java, Rust, OCaml, HTML, CSS, JavaScript, Go, C
Tools: Figma, Git, IntelliJ, RustRover, Firebase, MySQL, Maven, Cursor
Libraries/Frameworks: NumPy, Pandas, Sklearn, Matplotlib, Seaborn, JUnit, Mockito

Professional Experience

Datadog **May 2026 – August 2026**

Software Engineering Intern - K9 Cloud Security Misconfigurations *New York, NY*

- Built an LLM pipeline with prompt chaining that translates Cloud Security Rego rules into Terraform Rego rules
- Improved translation accuracy from **30% to 70%** by applying RAG, chain-of-thought reasoning, and few-shot prompting, measured against a benchmark set of existing rule pairs
- Owned project end-to-end: system design, evaluation methodology, and deployment to internal users via GitLab CI

Amazon Web Services **May 2025 – August 2025**

Software Development Engineer Intern - Identity and Access Management *Arlington, VA*

- Built a validator in Java enabling services like DynamoDB and EC2 to onboard to a system that reduces load on IAM's core authentication service
- Utilized **Mockito** to write unit tests, and utilized **IAM tools** for integration tests
- Implemented the project end-to-end through design review and code review with the IAM team

Amazon Web Services **May 2024 – August 2024**

Software Development Engineer Intern - Identity and Access Management *Arlington, VA*

- Implemented AWS IAM features in **Rust** for a platform serving services like S3 and RDS, laying the foundation to handle **trillions of authorization requests per day**
- Collaborated with 18 engineers and 2 interns across the full development life cycle, from design docs to code review and deployment

Projects

All In | *Millennium Management Project* | GitHub

- Engineered session-based authentication for Cornell sports betting app, integrating **MySQL** and **Firebase** for secure, scalable user management
- Worked cross-functionally on a team of 30+ people and with Millennium Management, ensuring proper development and direction of All In

FootySearch | Website | GitHub

- Designed and implemented the frontend for FootySearch, an information retrieval system for soccer players, using **Figma** and **React**.

Leadership and Teaching Experience

Cornell Bowers CIS **January 2026 – Present**

Teaching Assistant for CS 4820: Introduction to Analysis of Algorithms *Cornell University*

- Lead weekly discussion sections for **200+** students, breaking down proof techniques and algorithm design across greedy algorithms, divide-and-conquer, dynamic programming, network flow, and NP-completeness
- Hold office hours guiding students through proof construction and rigorous runtime and complexity analysis
- Grade problem sets and exams, providing detailed feedback on proof correctness and algorithmic reasoning

Cornell AppDev **January 2026 – Present**

Team Lead *Cornell University*

- Elected Team Lead by a **71-member** engineering organization; set technical and product direction across engineering, design, and PM subteams
- Oversee development of **7 production iOS and Android apps** serving **14,000+ users** across campus
- Coordinate engineering, design, and PM subteams through the full product lifecycle, from spec to App Store release