

# Sylvester Elorm Kpei

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## EDUCATION

### Cornell University

*Bachelor of Arts in Computer Science*

Ithaca, NY

Aug. 2024 – May 2028

## EXPERIENCE

### African Languages Lab

*Software & Data Engineering Intern*

May. 2025 – Present

Madison, WI

- Built end-to-end NLP data pipeline processing 10,000+ Malagasy sentences through web scraping, regex cleaning, and pattern analysis, creating structured datasets for language research supporting 18M+ native speakers.
- Engineered automated text extraction and preprocessing workflows using Python, BeautifulSoup, and regex, reducing manual data collection time by 80% and enabling scalable linguistic analysis for endangered African language preservation projects.

### NVIDIA

*Software Engineering Fellow*

Jun. 2025 – Present

Santa Clara, CA

- Completed the NVIDIA Summer Bridge Program, a 3-part technical series led by 10+ senior engineers, with in-depth sessions on CUDA, GPU architecture, and scalable AI infrastructure.
- Explored real-world engineering challenges powering NVIDIA's breakthroughs in deep learning, robotics, and graphics, gaining first hand insight into product development at global scale.

### Jane Street

*Software Engineering Fellow*

May. 2025

New York City, NY

- Selected as 1 of 51 students nationwide (from 1,000+ applicants) for Jane Street's FOCUS Program, centered on software engineering, functional programming, and large-scale systems.
- Completed 10+ hours of technical workshops and collaborative challenges, including hands-on experience with OCaml to simulate real-time trading infrastructure.

### GhCode Foundation

*Founder*

Oct. 2023 – Present

Kumasi, Ghana

- Founded a tech-education foundation that empowered 500+ students by developing a full-stack learning management system with React, Node.js, and Firebase, reducing onboarding time by 50.
- Created automated grading scripts in Python, increasing grading accuracy by 30% and scalability by 40%.

## PROJECTS

### SlydeBack | [Project Link](#)

May. 2025 – Jun. 2025

- Engineered an email delay extension using JavaScript and browser APIs, enabling customizable send delays up to 24 hours, processing 100+ queued emails and real-time countdown functionality.
- Developed complete email queuing system with cancel/modify capabilities and cross-session persistence, reducing accidental sends by 95% and demonstrating advanced asynchronous programming beyond standard Gmail's 30-second limitations.

### Personal Portfolio Website | [Project Link](#)

May. 2025

- Designed and launched a fully custom portfolio using HTML, CSS, and JavaScript, featuring 10 animated floating bubbles, 5 interactive sections and 3 live project demos.
- Built with responsive design and smooth animations, optimized for fast load times and seamless user experience across devices, showcasing technical depth and design precision.

### Ithaca Weather Intelligence Dashboard | [Project Link](#)

Apr. 2025 – May. 2025

- Built interactive weather analytics platform with Python, Dash, and Plotly, processing real-time data from 4 locations with automated collection and cloud deployment.
- Developed predictive algorithms improving weather preparedness accuracy by 40% and solving unpredictability challenges for 30,000+ Ithaca residents.

## TECHNICAL SKILLS

**Languages:** Python, Java, R, C++, JavaScript(ES6), OCaml

**Frameworks:** Linux, Figma, React.js, Node.js, AWS, GitHub

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

**Libraries:** pandas, NumPy, Matplotlib