

# Sylvester Elorm Kpei

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## EDUCATION

### Cornell University

Bachelor of Arts in Computer Science

Ithaca, NY

Expected May 2028

## EXPERIENCE

### African Languages Lab

Software & Data Engineering Intern

Madison, WI

May 2025 – Present

- 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

Santa Clara, CA

June 2025 – Present

- 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

New York City, NY

May 2025

- 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

Kumasi, Ghana

October 2023 – Present

- 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

- 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

### SilverStore

- Built secure e-commerce platform handling 30+ orders worth \$10K with integrated payment processing, featuring automated inventory management and comprehensive admin dashboard reducing manual oversight by 80%
- Engineered AI recommendation system achieving 94% accuracy using collaborative filtering and behavioral analytics, increasing user engagement by 76% click-through rate through real-time preference learning algorithms

### Ithaca Weather Intelligence Dashboard

- 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

**Tools & Frameworks:** Git, React.js, Node.js, EC2, S3, Express.js