

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.

SilverStore | [Project Link](#)

Jun. 2025 – Jul. 2025

- 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.

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

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