# Sylvester Elorm Kpei

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## Education

**Cornell University** — Ithaca, NY
*Bachelor of Arts in Computer Science* — *Aug. 2024 – May 2028*

## Experience

**African Languages Lab** — May. 2025 – Present
*Software & Data Engineering Intern* — *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** — Jun. 2025 – Present
*Software Engineering Fellow* — *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** — May. 2025
*Software Engineering Fellow* — *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** — Oct. 2023 – Present
*Founder* — *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
**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