

Sylvester Elorm Kpei

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EDUCATION

Cornell University

Bachelor of Arts in Computer Science

Ithaca, NY

Expected May 2028

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems Programming, Software Engineering, Database Systems, Machine Learning, Computer Architecture, Calculus I,II, & III, Functional Programming

TECHNICAL SKILLS

Languages: Python, Java, Go, C++, JavaScript, OCaml, MongoDB, Swift, SQL(PostgreSQL), HTML/CSS, Ruby, Perl, GraphQL

Tools & Frameworks: GitHub, React, Node.js, FastAPI, AWS(EC2), Express.js, RESTful APIs, Docker, PyTorch, Bootstrap, Open Source, Linux, Pandas, NumPy, Material-UI, VS Code, Matplotlib

EXPERIENCE

African Languages Lab

Software & Data Engineering Intern

Madison, WI

May 2025 – August 2025

- Built AI translation models for 12+ African languages to English using TensorFlow, and Pandas, processing 10,000+ Malagasy sentences through automated NLP pipelines and supporting language research for 18M+ native speakers
- Developed web scraping workflows using Python and BeautifulSoup, reducing manual data collection by 80% and accelerating AI training for endangered African language preservation

NVIDIA

Software Engineering Fellow

Santa Clara, CA

June 2025 – August 2025

- Gained hands-on experience with GPU computing by implementing CUDA optimizations and performance analysis across 3+ robotics and deep learning pipelines during NVIDIA's Summer Bridge Program with 10+ senior engineers
- Analyzed engineering challenges in deep learning, robotics, and graphics projects, proposing solutions and understanding product development cycles at a global scale with a cohort of 50+ students

Amazon

Cohort Member

Seattle, WA

June 2025 – August 2025

- Completed Amazon's 10-week Campus Prep Series, developing skills in networking, resume optimization, and interview preparation through 10+ specialized sessions focused on technical career advancement
- Enhanced technical interview and cloud computing skills through Amazon's SDE Interview Prep and AWS sessions, improving problem-solving capabilities and gaining hands-on experience with EC2, S3 and Lambda

Jane Street

Software Engineering Fellow

New York City, NY

May 2025 - 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
- Boosted functional programming skills in OCaml through 10+ hours of technical workshops, collaboratively building a trading simulation that processed 900+ concurrent operations using threads, processes, and virtual memory management optimization

PROJECTS

RoadBuddy

June 2025 - Present

- Created intercity carpooling platform where drivers post future trips with flexible pricing for 100+ mile journeys, built with Swift/SwiftUI, Material UI, and Python Flask supporting 40+ REST endpoints with 95% uptime
- Implemented Stripe payments, 5-star ratings, real-time GPS tracking, and in-app messaging across 8 mobile screens, reducing intercity travel costs by 60% through efficient ride-sharing

SilverStore

June 2025 - Present

- Built secure e-commerce platform handling 30+ orders with integrated payment processing and automated inventory management, reducing manual oversight by 80%
- Developed AI recommendation system achieving 94% accuracy using collaborative filtering, increasing user engagement by 76% through real-time preference learning

Ithaca Weather Intelligence Dashboard

May 2025 - Present

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

LEADERSHIP ROLES

NSBE(Peer Mentor) - Guided incoming students on navigating coursework and internship prep

URMC(Freshman Rep) - Represented freshman cohort, organized events to support underrepresented peers in CS