Sylvester Elorm Kpei

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EDUCATION

Cornell University   **Ithaca, NY**
Bachelor of Arts in Computer Science   *Expected May 2028*
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computer Systems Programming, Software Engineering, Database Systems, Machine Learning, Linear Algebra

EXPERIENCE

NVIDIA   **Santa Clara, CA**
Software Engineering Fellow   *June 2025 – August 2025*
- 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

Amazon   **Seattle, WA**
Cohort Member   *June 2025 – August 2025*
- Completed Amazon Campus Prep Series, a 10-week professional development program with 10+ sessions covering networking, resume optimization, interview preparation, and technical career exploration
- Enhanced technical interview skills and cloud computing knowledge through Amazon's SDE Interview Prep and Intro to the Cloud sessions, improving readiness for software engineering roles

African Languages Lab   **Madison, WI**
Software & Data Engineering Intern   *May 2025 – August 2025*
- 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 workflows using Python, BeautifulSoup, and regex, reducing manual data collection by 80% for endangered African language preservation projects

Jane Street   **New York City, NY**
Software Engineering Fellow   *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

PROJECTS

RoadBuddy
- Created intercity carpooling platform where drivers post future trips with flexible pricing for 100+ mile journeys, built with Swift/SwiftUI 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
- Built secure e-commerce platform handling 30+ orders with integrated payment processing and automated inventory management, reducing manual oversight by 80%
- Engineered AI recommendation system achieving 94% accuracy using collaborative filtering, increasing user engagement by 76% through real-time preference learning

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, Swift, SQL
Tools & Frameworks: Git, React.js, Node.js, AWS(EC2), MongoDB, Express.js, RESTful APIs, Docker, PostgreSQL

LEADERSHIP ROLES

Underrepresented Minorities in Comp.(URMC)-Freshman Rep **Big Red Hacks** - Workshop Organizer

Cornell Data Science Club - Project Team Member   **National Society for Black Engineers(NSBE)** - Peer Mentor