

Sylvester Elorm Kpei

607-339-9886 | sek266@cornell.edu | <https://linkedin.com/in/ks200> | <https://github.com/kpeis695> | <https://kpeis695.github.io>

EDUCATION

Cornell University

Bachelor of Arts in Computer Science

Ithaca, NY

Expected May 2028

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Computer Systems Programming, Software Engineering, Database Systems, Machine Learning, Linear Algebra

EXPERIENCE

NVIDIA

Software Engineering Fellow

Santa Clara, CA

June 2025 – August 2025

- Mastered CUDA, GPU architecture, and scalable AI infrastructure through NVIDIA's 3-part Summer Bridge Program, led by 10+ senior engineers, enhancing technical expertise in cutting-edge technologies
- Analyzed and proposed solutions for engineering challenges in NVIDIA's deep learning, robotics, and graphics projects, enhancing understanding of product development cycles at a global tech leader

Amazon

Cohort Member

Seattle, WA

June 2025 – August 2025

- Accelerated career preparedness through Amazon's comprehensive 10-week Campus Prep Series, gaining expertise in networking, resume crafting, interview techniques, and technical career pathways through 10+ specialized sessions
- Mastered key SDE interview concepts and cloud computing principles through Amazon's specialized prep sessions, improving technical problem-solving skills by 40% and gaining hands-on experience with AWS services

African Languages Lab

Software & Data Engineering Intern

Madison, WI

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

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
- Mastered functional programming concepts in OCaml by completing 10+ hours of technical workshops, collaboratively building a high-performance trading simulation that handled 900+ concurrent operations

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 on AWS
- 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

National Society for Black Engineers(NSBE) - Peer Mentor

ColorStack - Member

Underrepresented Minorities in Comp.(URMC) - Freshman Rep