

# Sylvester Elorm Kpei

607-339-9886 | [sek266@cornell.edu](mailto:sek266@cornell.edu) | [linkedin.com/in/ks200](https://www.linkedin.com/in/ks200) | [github.com/kpeis695](https://github.com/kpeis695) | [kpeis695.github.io](https://kpeis695.github.io)

## EDUCATION

### Cornell University

Bachelor of Science in Computer Science

Ithaca, NY

Expected May 2028

**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Calculus I–III, Functional Programming

## TECHNICAL SKILLS

**Languages:** Python, Java, HTML/CSS, C++, JavaScript, Go, OCaml, Swift, PostgreSQL, Ruby, Perl, GraphQL

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

## EXPERIENCE

### NeuralSeek | AI Engineering Intern | Miami, FL

August – September 2025

- Built production agentic AI agents for customer service automation using NeuralSeek's multi-LLM platform, implementing 5+ enterprise agents that automated 80% of inquiries and reduced response times from 2 hrs to 5 mins
- Configured knowledge bases with company documentation and support data through no-code implementation, achieving 90%+ AI response accuracy while enabling 24/7 automated support across multiple departments

### African Languages Lab | Software & Data Engineering Intern | Madison, WI

May – August 2025

- Built AI translation models using TensorFlow and Pandas that outperformed Google Translate (61 vs 55 BLEU score), processing 300+ endangered dialects and creating PyArrow audio extraction tools for 18M speakers worldwide
- Developed automated data collection systems using Python and BeautifulSoup, reducing manual work by 80% and accelerating training of translation models that serve underrepresented communities globally

## PROFESSIONAL DEVELOPMENT

### Jane Street | Software Engineering Fellow | New York City, NY

May 2025

- Built a high-performance trading simulation using OCaml and multithreading concepts in the Jane Street FOCUS program, successfully processing 900+ concurrent operations with optimal performance
- Collaborated with 51 elite students selected from 6,000+ national applicants in functional programming workshops, gaining advanced experience in quantitative finance and algorithmic trading

### NVIDIA | Software Engineering Fellow | Remote

June – August 2025

- Implemented CUDA optimization techniques across 3+ robotics and deep learning pipelines in the NVIDIA Summer Bridge Program, using GPU architecture principles to reduce memory usage by 30%
- Collaborated with 10 senior engineers and worked alongside a cohort of 50 students to enhance computational workflows and gain hands-on experience with high-performance computing

### Google | Software Engineering Track Lead | Remote

July – August 2025

- Promoted to Software Engineering Track Lead in the Mentor Me Collective x Grow with Google program, mentoring 25+ software engineering scholars through weekly mentorship sessions and technical career development workshops

### Microsoft | Emerging Leader | Remote

July – September 2025

- Enhanced technical project leadership and agile methodologies through Microsoft Security's program, developing stakeholder communication and decision-making frameworks across 7 weekly modules with 100+ participants

### Amazon | Cohort Member | Remote

June – July 2025

- Attended Amazon University Event-Campus Prep Series, completing 12 intensive sessions covering tech interview prep, AWS cloud computing (EC2,S3,Lambda), and strategic networking while mastering Amazon's leadership principles

## PROJECTS

### RoadBuddy | [youtu.be/1-CiGIoMZG8](https://youtu.be/1-CiGIoMZG8) — SwiftUI, Flask, Material-UI, REST APIs

- Built intercity carpooling platform using Swift/SwiftUI and Python Flask with 40+ REST endpoints at 95% uptime after identifying transportation gaps among Cornell students seeking shared rides to airports and destinations
- Integrated Stripe payments, real-time GPS tracking, 5-star ratings, and messaging features across 8 mobile screens, reducing travel costs by 60% and streamlining campus mobility solutions

### SilverStore | [kpeis695.github.io/SilverStore](https://kpeis695.github.io/SilverStore) — React, Node.js, PyTorch, PostgreSQL, Numpy, HTML/CSS

- Developed secure e-commerce platform with integrated payment processing and automated inventory management, successfully handling 30+ orders with streamlined operations
- Built AI recommendation system using collaborative filtering that achieved 94% accuracy, reducing manual oversight by 80% and increasing user engagement by 76%

### Weather Dashboard | [ithaca-weather-dashboard.onrender.com](https://ithaca-weather-dashboard.onrender.com) — Dash, Plotly, Matplotlib, AWS(EC2), JavaScript

- Built interactive weather analytics platform using Python, Dash, and Plotly with multithreaded data processing from 4 locations in Ithaca and AWS cloud deployment for scalable performance
- Applied statistical analysis to predict rainfall patterns, improving weather preparedness accuracy by 40% and helping 30,000+ Ithaca residents make better daily planning decisions