

Sylvester Elorm Kpei

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

NeuralSeek(CerebralBlue Inc.)

Incoming AI Engineering Intern

Miami, FL

August 2025 – September 2025

African Languages Lab

Software & Data Engineering Intern

Madison, WI

May 2025 – 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

Google

Software Engineering Track Lead

Mountain View, CA

July 2025 – August 2025

- Promoted to Software Engineering Track Lead position, mentoring 25+ Software Engineering scholars through weekly mentorship sessions and technical career development workshops. Facilitating peer collaboration initiatives and providing industry insights with 90%+ engagement rates while completing advanced leadership training curriculum.

Microsoft

Emerging Leader

Redmond, VA

July 2025 – 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

NVIDIA

Software Engineering Fellow

Santa Clara, CA

June 2025 – August 2025

- Implemented CUDA optimization techniques across 3+ robotics and deep learning pipelines using GPU architecture principles, collaborating with 10 senior engineers to achieve measurable performance improvements in computational workflows with a cohort of 50 students

Jane Street

Software Engineering Fellow

New York City, NY

May 2025 – May 2025

- Built high-performance trading simulation using OCaml and multithreading concepts, processing 900+ concurrent operations while collaborating with 50+ elite students selected from 1,000+ national applicants in functional programming workshops

PROJECTS

RoadBuddy | youtu.be/1-CiGIoMZG8 — *SwiftUI/SwiftUI, Flask, Material-UI, REST APIs*

- Built intercity carpooling platform using Swift/SwiftUI and Python Flask with 40+ REST endpoints at 95% uptime, integrating Stripe payments, real-time GPS tracking, 5-star ratings, and messaging features across 8 mobile screens, reducing travel costs by 60%

SilverStore | 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 handling 30+ orders, featuring 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 — *Dash, Plotly, Matplotlib, AWS(EC2), JavaScript*

- Built an interactive weather analytics platform using Python, Dash, Plotly, and Matplotlib with multithreaded data processing from 4 locations in Ithaca and AWS cloud deployment, featuring predictive algorithms that improved weather preparedness accuracy by 40% for 30,000+ Ithaca residents

LEADERSHIP ROLES

NSBE(Peer Mentor) - Guided 47 incoming students on navigating coursework and internship prep

URMC(Freshman Rep) - Represented 20+ freshman cohort, organized events to support underrepresented peers in CS