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, 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.) — **Miami, FL**

Incoming AI Engineering Intern — *August 2025 – September 2025*

African Languages Lab — **Madison, WI**

Software & Data Engineering Intern — *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

Microsoft — **Redmond, VA**

Emerging Leader — *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 — **Santa Clara, CA**

Software Engineering Fellow — *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

Amazon — **Seattle, WA**

Cohort Member — *June 2025 – August 2025*

- Enhanced technical interview strategies and AWS cloud services proficiency (EC2, S3, Lambda) through 10+ specialized training sessions, developing networking and resume optimization skills across Amazon's 10-week intensive preparation program

Jane Street — **New York City, NY**

Software Engineering Fellow — *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 — *Swift, Flask, PostgreSQL, Material-UI, REST APIs* — *June 2025 - Present*

- 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 — *React, Node.js, Python, PyTorch, PostgreSQL, Numpy, HTML/CSS* — *June 2025 - Present*

- 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%

Ithaca Weather Intelligence Dashboard — *Dash, Plotly, Matplotlib, AWS(EC2), JavaScript* — *May 2025 - Present*

- Built an interactive weather analytics platform using Python, Dash, Plotly, and Matplotlib with multithreaded data processing from 4 locations 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