SYLVESTER ELORM KPEI

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EDUCATION

Cornell University – Ithaca, New York, USA
Intended Major: Computer Science   **GPA: 3.8/4.0**
Relevant Coursework: Data Structures & Algorithms |Distributed Systems | Probability and Statistics |Machine Learning | Web Development | Functional Programming

SKILLS

- **Programming languages**: Python, Java, R, C, C++, JavaScript(ES6), SQL, OCaml
- **Systems & Tools:** Linux, Figma, React.js, Node.js, AWS, GitHub
- **Development:** Full-stack (React, Node.js), Embedded Development, API Design
- **Cloud Platforms:** AWS, Microsoft Azure, Google Cloud

EXPERIENCE

NVIDIA – Santa Clara, CA, United States   June, 2025 - Aug, 2025
Software Engineering Fellow
- 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.

Jane Street – New York, United States   May, 2025
Software Engineering Fellow
- 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.

GhCode Foundation– Kumasi, Ghana   Nov, 2024
Founder
- Founded a **tech-education foundation** that empowered **500+ students** by developing a **full-stack learning management system** with **React, Node.js, and Firebase**, reducing onboarding time by **50%**.
- Created automated grading scripts in **Python**, increasing grading accuracy by **30%** and scalability by **40%**.

Robotech Challenge –Accra, Ghana.   Sep 2024
Champion
- Led a team of **7** to win **1st place** among **78 teams** by developing an **autonomous cleaning robot** using **Python**.
- Optimized control algorithms for task allocation and UV-C light-based disinfection, achieving an **85% reduction** in surface contamination and improving sanitation efficiency by **40%** in controlled environments, demonstrating an innovative approach to problem-solving and project management

PROJECTS

Personal Portfolio Website   **[Project Link](#)**
- Designed and launched a fully custom portfolio using **HTML, CSS, and JavaScript**, featuring 10 animated floating bubbles, 5 interactive sections and 3 live project demos.
- Built with responsive design and smooth animations, optimized for fast load times and seamless user experience across devices, showcasing technical depth and design precision.

Ithaca Weather Intelligence Dashboard   **[Project Link](#)**
- 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**.

Reaction Time Test Game   **[Project Link](#)**
- Built an interactive web-based game in **React.js** & **JavaScript** that measures reaction speed with millisecond precision.
- Improved performance through 50+ iterations, showcasing attention to detail and iterative development, valuable in consulting environments.