SYLVESTER ELORM KPEI

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SUMMARY

Computer Science student at Cornell with strong skills in **Python, C++ and Java**. Experienced in **systems programming**, **full-stack development**, and **cloud (AWS)**. Proven leader in building efficient, **scalable software**.

Cornell University – Ithaca, New York, USA
Intended Major: Computer Science   **GPA: 4.0/4.0**
Relevant Coursework: Data Structures & Algorithms | Intro CS: Design and Development |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, Git, Kubernetes, MySQL, Redis, AWS, Firebase, GitHub
- **Development:** Full-stack (React, Node.js), Embedded Development, API Design
- **Cloud Platforms:** AWS, Microsoft Azure, Google Cloud

EXPERIENCE

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.
- Engaged in **1:1** conversations with **5+ Jane Street engineers**, gaining direct insight into **system design**, **code reliability**, and **engineering culture** at one of the world's leading trading firms.

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%**.
- Secured **3+ strategic partnerships** with local organizations and tech firms, **expanding program reach** and improving resource availability by **25%**.

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

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.

Planetoids Game   **Project Link**
- Built a space-themed game with **Java** and **JavaFX**, integrating collision detection, physics, and AI behaviors.
- Conducted rigorous testing to improve frame rate consistency by **15%**, demonstrating a structured approach to problem-solving and enhancing user experience.

CAMPUS INVOLVEMENT

- National Society of Black Engineers.   Association of Computer Science Undergraduates, Member.
- Underrepresented Minorities in Computing.   Cornell Mundial F.C, Defensive Midfielder.