

# SYLVESTER ELORM KPEI

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## SUMMARY

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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

Graduating May 2027

**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

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- **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

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**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

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**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

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