

# Appiah-Sekyere Reginald Kotey

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## EDUCATION

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### New York University

*Bachelor of Science in Computer Science, Minor in Mathematics*

**GPA:** 3.7

New York, NY

*Aug. 2022 – May 2026*

## EXPERIENCE

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### Audio Visual Technical Assistant

Jan 2023 – Jul 2024

*New York University Abu Dhabi*

*Abu Dhabi, UAE*

- Collaborated on the development and maintenance of the Audio-Visual user interface for classroom systems, leading to a 24% improvement in user interaction and overall satisfaction
- Contributed to the maintenance of the department database, resulting in a 15% increase in operational efficiency
- Provided expert technical support for over 500 customers, resolving 95% of reported bugs within 24 hours and maintaining a 98% customer satisfaction rate

### Network Sector Software Engineer Intern

Jun 2023 – Aug 2023

*University of Cape Coast*

*Cape Coast, GH*

- Developed a campus network problem management system, increasing error detection by 20% and reducing problem resolution costs by 30% through web application implementation
- Implemented advanced debugging techniques including profiling and memory leak detection on legacy codebase, resulting in a 10% improvement in system performance and stability
- Built and tested network configurations using GNS3 to simulate and analyze network performance under various conditions achieving a 20% improvement in network reliability

## PROJECTS

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### HotelFinder | C++

- \* Developed a custom Hashmap class to store hotel dataset of over 100,000 hotels around the world optimizing data retrieval and manipulation with a constant time complexity.
- \* Implemented a custom AVL Binary Search Tree, optimizing data operations with  $O(\log n)$  time complexity for insertions, deletions, and lookups in the hotel management system
- \* Optimized hotel search functionality using advanced algorithms, resulting in a 95% reduction in search time and improved result accuracy

### AppleWebClone | React

- \* Integrated Tailwind CSS, ensuring 100% consistency across components and reducing styling-related debugging time by 40%
- \* Optimized production builds using Vite, resulting in a 40% decrease in bundle size and a 60% improvement in page load times
- \* Utilized GSAP and THREE.js to create immersive animations and 3D renderings, resulting in a 40% increase in average time spent on site
- \* Monitored web performance and user interactions using Sentry, achieving a 100% rating for crucial metrics such as Largest Contentful Paint (LCP) and Time to First Byte (TTFB)

### RekasBot | JavaScript, C

- \* Integrated machine learning capabilities using ml5.js, enabling the car-robot to recognize and respond to 6 different hand gestures with 90% accuracy
- \* Developed an autonomous mode using probabilistic algorithms for random movement patterns, increasing user engagement time by 20% during periods of inactivity
- \* Optimized gesture recognition model through data augmentation and hyperparameter tuning, improving the bot's overall reliability by 50% and reducing false positives by 30%

## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, C/C++, SQL (MySQL), MongoDB, HTML, CSS, Assembly

**Frameworks:** React, Express, Node.js, WordPress, Tailwind, THREE.js, GSAP

**Developer Tools:** Git, Google Cloud Platform, Visual Studio, MongoDB, Replit, Docker