

# Kwaaku Boamah-Powers

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## EDUCATION

### New York University

BS Computer Science, Minors in Applied Mathematics and Interactive Media

Aug. 2022 – May 2026

## SKILLS AND CERTIFICATIONS

**Languages:** C/C++, Python, MATLAB, JavaScript, Dart, HTML/CSS, C#

**Frameworks:** Express.js, React.js, Node.js, Flutter

**Developer and Database Tools:** VS Code, Postman, Docker, Visual Studio, PyCharm, GitHub, Unity 3D, Android Studio, Jasmine, Jest, React Testing Library, MongoDB, Firebase, SQL, SQLite

**Certifications:** Introduction to Cybersecurity, J.P. Morgan Chase & Co. - Software Engineering Job Simulation

## EXPERIENCES

### Software Engineering Intern

Feb - April 2024

*Buzz Mobility*

*Accra, Ghana, Remote*

- Designed and integrated mobile payment features using the PayStack API, implementing secure transaction protocols and API integration, enhancing transaction reliability, and driving a 20% increase in daily transactions
- Engineered front-end optimizations, leveraging webpack for code-splitting and dynamic imports, along with Intersection Observer API for lazy loading, reducing initial load times by 30%
- Implemented comprehensive unit and integration tests for mission-critical components using Jest and React Testing Library, improving code coverage by 40% and reducing production bugs by 25%

### Cybersecurity Analyst Intern

July – August 2023

*Kwame Nkrumah University of Science and Technology*

*Kumasi, Ghana*

- Assessed existing systems, implemented Snyk into the development pipeline, conducted vulnerability assessments, fixed 50+ vulnerabilities, and measured a 30% security enhancement through follow-up scans and metrics
- Analyzed system weaknesses, developed stronger security requirements, conducted 15 training sessions for 120 employees, and implemented regular audits, resulting in a 25% increase in security compliance and a 40% reduction in password-related breaches
- Configured 10 Debian 12 environments, installed Nessus for vulnerability scanning, conducted weekly scans, and collaborated on remediation efforts, resulting in a 20% reduction in network threats as verified by follow-up assessments and incident reports

## PROJECTS

### Real Estate App | *MongoDB, React, Node.js, Express.js, SCSS*

July - August 2024

- Engineered a full-stack real estate platform using React, Node.js, Prisma, and Socket.io, featuring real-time chat and efficient property management, resulting in a 35% increase in user engagement and a 30% faster property browsing experience
- Strengthened authentication security using JWT and bcrypt, blocking 95% of brute-force attacks and mitigating 80% of session hijacking attempts in local security tests
- Streamlined API performance by designing efficient RESTful endpoints, leading to a 40% reduction in load times for property search and profile management operations

### Expense Tracker | *Flutter, Dart, Firebase, BLoC*

June 2024

- Developed a cross-platform expense tracking app using Flutter, reducing data synchronization issues by 90% through the integration of Firebase for real-time cloud storage
- Implemented dynamic charts using the `fl_chart` package, enhancing data visualization capabilities and enabling users to track and analyze spending patterns, resulting in a 25% increase in user engagement with financial insights
- Utilized BLoC for state management to maintain a scalable and maintainable codebase, resulting in a 50% improvement in code readability and 30% faster bug resolution across both Android and iOS platforms

## AFFILIATIONS

ColorStack | *Community Member*

May 2024 - Present

CodePath | *Community Member*

May 2024 - Present