Edward De-Graft Quansah

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Education

William Paterson University, Wayne, NJ December 2025

Bachelor of Science in Computer Science; GPA: 4.00

Relevant Courses: AI, Data Mining, Cloud Computing, Full Stack Mobile and Web Dev, Data Structures, UI/UX Design, Security, OS, Parallel Computing

Honors: Valedictorian (2017), NSMQ Finalist (2017), Innovation Hub Award (AyaPrep 2022)

Technical Skills

Languages: Python, JavaScript, TypeScript, C++, HTML/CSS, PostgreSQL
Frameworks: React, NodeJS, Express, React-Native, Expo, Django, Flask, FastAPI, JUnit, Supabase, Appwrite
Tools: Git, Docker, GCP, CursorAI, VS Code, IntelliJ, Eclipse
Libraries: Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, JSON

Work Experience

Software Engineer Intern, Strategic Microsystems January 2024 – May 2024

New Jersey

- Developed and tested features in a Java enterprise application, improving system reliability by 20%
- Automated QA processes using Selenium and JUnit, reducing manual testing efforts by 30% and increasing test coverage
- Set up CI/CD pipelines with Git and Jenkins, reducing deployment time by 50% and ensuring seamless integration

Software Engineer, AyaPrep Limited June 2022 – Present

Remote

- Developed RESTful APIs using Python and Flask to deliver localized math content across regional dialects, increasing user engagement by 30%
- Optimized platform performance by implementing caching mechanisms and database indexing, scaling reach by 50% and reducing latency by 40%
- Implemented secure user authentication and role-based authorization systems using JWT and OAuth, enhancing security and compliance

IT Support Specialist, William Paterson University August 2023 – May 2025

Wayne, NJ

- Provided hardware/software support for over 500 students and faculty, resolving 95% of issues within SLA timelines
- Diagnosed and resolved complex issues including OS failures, hardware malfunctions, and network errors using tools like Wireshark and SCCM

Projects

Qurius-AI (Website) June 2025 – July 2025

- Developed a full-stack SaaS chat widget platform using React, TypeScript, and Node.js, implementing real-time analytics tracking, custom theming, and multi-step onboarding flow that reduced customer setup time by 80%
- Architected comprehensive widget usage analytics system with PostgreSQL database, RESTful APIs, and real-time dashboards, enabling companies to track 10+ metrics including views, interactions, and session data with 99.9%
- Built enterprise-grade admin dashboard with role-based authentication, CRUD operations, and interactive data visualization using Recharts, providing companies with actionable insights and performance metrics
- Implemented secure widget integration system with UMD bundling, CORS handling, and automatic domain extraction, allowing seamless deployment across any website with customizable branding and theme management

ShareSphere (GitHub) March 2025 – June 2025

- Built a full-stack platform for students to donate, share, and request items across campus, facilitating over 1,000 transactions
- Implemented secure OAuth login (Google, GitHub, Facebook) and custom credential- based flow, increasing user registrations by 40%
- Engineered a centralized like system and image carousel with state-synced React components, enhancing user experience and engagement
- Deployed containerized app on Google Cloud using PostgreSQL, Express.js, Cloudinary, and Docker, ensuring high availability and scalability

Student Performance Predictor February 2025 – April 2025

- Analyzed student dataset using pandas and NumPy, handling missing data and outliers to ensure data integrity
- Trained multiple ML models (Random Forest, SVM) using scikit-learn, achieving 87% accuracy after hyperparameter tuning
- Visualized insights with matplotlib and seaborn, enabling actionable recommendations for academic interventions