BERND OSAFO OPOKU-BOADU

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PROFILE

Motivated Software Developer with strong experience in backend development and software testing. Skilled in .NET C#, Python, Java, SQL/NoSQL databases, with hands-on expertise building scalable RESTful and GraphQL APIs, designing relational schemas, and developing production-level features for enterprise systems. Demonstrated ability to work in Agile teams, deliver high-quality code, and collaborate across engineering and product functions. A fast learner with excellent problem-solving skills, leadership experience, and a commitment to writing clean, maintainable, and well-tested software. Interested in technical project management (product ownership).

EDUCATION

Heriot-Watt University   **Edinburgh, Scotland**
MSc. Software Engineering   **September 2025 - Present**

The content of my programme provides me with in-depth knowledge of the theoretical and practical aspects of Software Engineering, involving practical programming labs as well as multi-disciplinary team design projects. Relevant areas of studies include:

- **Industrial Programming:** Developed a web browser using .NET C# and Window Forms. Worked with a team to design a data analytics application using data scrapped from issuu.com.
- **Data Mining and Machine Learning:** Worked with a team to build and train machine learning models that classify fruits from image datasets and tabular ingredient data using supervised learning techniques.

Ashesi University   **Berekuso, Ghana**
BSc. Computer Science   **September 2020 - August 2024**
Cumulative GPA: 3.68

The content of my programme provides me with in-depth knowledge of the theoretical and practical aspects of Computer Science, involving practical programming labs as well as multi-disciplinary team design projects. Relevant areas of studies included:

- **Data Structures and Algorithms:** Investigated data structures and algorithms used to solve problems and determine what is suitable to use in real-life applications that solve problems through programming in Java.
- **Intermediate Computer Programming:** Run a simulation of an airline operation using start and end countries to determine the route taken based on the data provided in Java and C++.
- **E-commerce:** Developed a tech rental e-commerce web application for users to be able to rent tech products such as laptops, cameras, among others.
- **Capstone:** Developed a waste management mobile application for households to conveniently dispose of household waste to address inefficiencies in current waste management collection companies. System requirements were informed by a survey with responses from about 60 people.
- Designed and implemented a database for a hotel management system and shoe store management system. Experienced with SQL and NoSQL databases.

ACHIEVEMENTS

Dean's List Honors, Ashesi University (semester GPA is above 3.5)   **2021 - 2024**

WORK EXPERIENCE

Salcon – Remote.   **October 2025 – January 2026**
Quality Assurance Engineer (Contract)

- Designed and executed test cases for academic projects including School Management Modules (user registration, course scheduling, payment, reporting).
- Collaborated with peers in Agile sprints, ensuring defects were identified early and resolved quickly.
- Used Postman for API validation and SQL queries to confirm database integrity.
- Simulated real-world school workflows to verify usability and reliability for teachers, students, and administrators.
- Documented defects, proposed solutions, and retested fixes to confirm quality standards were met.
- Improved efficiency of testing by automating repetitive test scenarios.

Axon Information Systems – South Industrial Area, Accra   **October 2024 – August 2025**
Software Developer (Industry Placement)

- Successfully led a team of four placement personnels to deliver a design and implement a helpdesk system, tailored to the needs of the Customer Support Department and later on to be used by client companies. Achieved this by organising daily stand up meetings, assigning and tracking tasks using Azure Devops and finding solutions to challenges that arose within a short period of time. Aided in the implementation of a scalable RESTful API using .NET and C# for the system.

- Led a team of personnels to develop a partner portal for a fintech application. Achieved this by using project management tools and techniques such as Azure Devops, Jira and sprints. Assisted the backend team with implementing the application GraphQL API using .NET C#.
- Led a team to develop a proposal for a supply, delivery and installation 300 of biometric smart POS, POS infrastructure and Terminal Management System for an office to be integrated with the National Switch and Loan Management System and Mobile Money operators. Achieved this by delegating tasks based on strengths and developing a checklist to ensure that all the requirements of the proposal were met. Worked on the technical and project management aspect of the proposal.

Kumatech – Remote   **February 2025– July 2025**
Backend Developer (Contract)
- Designed and implemented the HR, Quality Assurance, and Quality Control modules for a custom ERP system built for a pharmaceutical company.

PROJECTS

Laundre   **July 2025 – November 2025**
FullStack Developer
- Built a laundry management system to help laundry businesses manage their operations.

GeoFarms
Backend Developer.   **February 2025 – June 2025**
- Built a GraphQL API for a farm management system to help farmers manage data on crops, livestock, and schedules.

Autonova   **October 2024 – July 2025**
Backend Developer
- Developed a RESTful API using .NET and C# to manage family vehicles including maintenance tracking and insurance logs.

VOLUNTEERING

Scottish Tech Army, Edinburgh   **October 2025 – Present**
Member
- Active member of a volunteer network focused on working in partnership with the technology ecosystem of the UK to deliver scalable, impactful solutions.
- Awaiting suitable assignment aligned with technical expertise and project needs.

Ashesi University, Student Life and Engagement   **August 2023 – August 2024**
Resident Assistant
- Facilitated community-building activities and resolved conflicts, creating a supportive living environment for residents.
- Raised concerns and suggestions to the Student Life and Engagement department responsible for overseeing welfare in student accommodations.

Future of Africa, Accra   **October – November 2024**
Volunteer
- Dedicated time to helping kids who had been taken off the streets in any aspect that they were interested in be it mathematics, reading, writing and using technology. knowledge, confidence and team skills.

Ashesi University, Coaching, Counseling and Advising Department   **January 2023 – July 2024**
Peer Academic Advisor
- Advised students on academic strategies and course planning to enhance their educational experience. Achieved this finding new strategies to navigate the academic space and understanding the course structure for courses and finding different non-conventional pathways to ensure that they graduate within expect time or as soon as possible.

SKILLS
- **Programming Languages:** Proficient in Python, Java, C#, PHP
- **Backend Development:** Flask, Django, Node.js, .NET, RESTful API Design, GraphQL
- **Databases:** PostgreSQL, MongoDB, Firebase, MySQL
- **Tools & DevOps:** Git, Docker (basic), Azure (familiar), Agile methodologies, Jira, AzureDevops
- **Testing:** Familiar with xUnit, integration testing best practices, Selenium, Junit, Playwright
- **Version Control:** Git
- **Software Development:** Knowledge of SDLC, Agile Methodologies

HOBBIES AND INTERESTS
- **Snowboarding**
- **Video Games**
- **Anime**
- **Marvel Cinematic Universe**
- **Customer Relations**