NATHANAEL AYIREBAJE AZUPONGA

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EDUCATION

MSc Computer Science (University of Ghana).   **January 2023 – January 2024**
Core Courses: Advanced computer vision, Intelligent systems, Data Structures and Algorithms, Advanced software engineering.

Global Code summer boot camp   **July 2022 – August 2022**
- Two-month boot camp on practical software engineering skills.
- Built a weather app as an end of bootcamp project.

AWS Certified Cloud Practitioner   **February 2021 – June 2021**
- In-depth understanding with practical experience in AWS's well-architected framework, AWS Networking, Security, and Databases services.

BSc Biomedical Engineering (University of Ghana)   **July 2020**
Core Courses: Medical imaging, Bioinstrumentation, C programming.
- Final design project of a programmable medical device for human body signal analysis

RESEARCH EXPERIENCE

Research Coach (Data Intelligence and Swarm Analytics Lab)   **December 2023 – Present**
- Mentoring undergraduate and master's student in their research work.
- Reporting to the research lead about the performance of students in the lab.
- Peer reviewing research articles.

Research Assistant (Nanotheranostics Lab)   **September 2020 – March 2021**
- Analyzed and processed data using origin.
- Took students through principles of using lab machines.
- Organized lab section for students.

Research Assistant (Department of Biomedical Engineering)   **September 2020 – July 2021**
- Assisted faculty member to publish a book chapter by plotting graphs, drawing meaning into data and image processing.
- Took inventory of items in the various labs in the Department of Biomedical Engineering.

WORK EXPERIENCE

Contingent Software Engineer (Morgan Stanley)   **January 2022 – Present**
- Reviewing pull requests of teammates before merging.
- Following agile software development practices and life cycle to develop software.
- Cover test coverage by writing Mockito, unit and regression tests.
- Decommissioning legacy systems written in A plus language
- Maintaining and adding new features to existing systems using Java, C# and Scala.

Software Engineer (TURNTABL LTD, Accra, Ghana) September 2021 – Present
- Three months of intensive training in software development with hands-on labs and projects.
- Collaborated with an agile team to build a microservice architecture-based trading system utilizing pub-sub, queues, SOAP, REST using Spring Boot.
- Working with a four-person team to develop a collateral management system for trade risk analysis using Java and angular.
- Writing unit, regression, and smoke tests using Junit.
- Debugging and fixing production errors using graph debugger.

AWS Cloud Practitioner (AZUBI AFRICA) March 2021 – June 2021
- Trained on the Compute, Storage, Database, Network, Analytics, and Security aspects of AWS cloud computing through hands-on labs, coursework, and projects.
- Setup and configuration of infrastructure and AWS Core Services components.
- Supported security setups and tracked security incidents.

Teaching Assistant (University of Ghana) September 2020 – August 2021
- Organized tutorials using mostly on zoom or teams to explain difficult concepts to students.
- Helped organized quizzes and examination.
- Served as an invigilator during examination.
- Worked on machine learning projects using Python and TensorFlow for back pain detection.

VOLUNTEERING AND AWARDS

- Volunteer in Elsie Effah Foundation. Promoting STEM education by guiding teachers in using technological tools to improve their teaching, especially in coding.
- University of Ghana Plastic team. Advocated on how to keep plastic safe especially at the beaches of Ghana.
- High school and University committee. Teaching students in high school and universities about the importance of programming and how to become a software engineer.

AWARDS AND HONOURS

Dean's Honour Award, University of Ghana Scholarship, Best Graduating student (2020) in the biomedical engineering department.

LEADERSHIP

Financial Secretary Northern Student Union, University of Ghana Branch **August 2019**

Project Lead, Department of Biomedical Engineering **June 2020**

CORE TECHNOLOGIES AND SKILLS

LANGUAGES: Java, Scala, C#, Python   **CLOUD COMPUTING**: Amazon Web Services.
DATABASES: MySQL, PostgreSQL, Cassandra

SOFT SKILLS: Analytical thinker, team player, good communicator, problem-solving mindset