

AARON KATEY KUDADJIE

(+233)-55-9595-705 | [LinkedIn](#) | [GitHub](#) | [Email](#)

PROFILE SUMMARY

Proactive and passionate software engineer with a strong work ethic and a thirst for knowledge. Currently focusing on Machine Learning to create innovative solutions that empower communities.

EDUCATION

University of Ghana – Legon, Ghana

Graduating: Sep 2025

Major: BSc. Computer Science

Relevant Coursework: Software engineering, Multimedia and web design, Mobile Application development, Database Management, Machine learning, Computer networks, Human Computer Interaction, DSA, Cloud Computing.

EXPERIENCE

AmaliTech Ghana – East-Legon, Ghana

Mar 2024 – Apr 2024

Backend Developer (Intern)

- Collaborated with a team of developers to design, develop, and implement backend solutions for various web applications, utilizing technologies such as Typescript, NodeJS and ExpressJS.
- Managed and optimized PostgreSQL databases with the aid of Prisma ORM, ensuring efficient data retrieval and storage, and implemented complex queries to support application functionalities.
- Engaged in code reviews and optimized existing code to enhance performance and scalability, reducing load times and improving overall application efficiency by 5%.
- Performed extensive testing and debugging of backend components to identify and resolve issues, ensuring reliable and bug-free software delivery.
- Created comprehensive documentation for developed features and systems, facilitating easier maintenance and future development.
- Participated in Agile development practices, including daily stand-ups, sprint planning, and retrospectives, contributing to efficient project management and delivery.

TECHNICAL SKILLS

- **Languages:** Proficient in **Python**, Familiar with **Java**, **C#**, **SQL**.
- **Version Control:** Git and GitHub.
- **Automation:** Selenium.
- **Web Technologies:** HTML, CSS, JavaScript, Typescript, Tailwind CSS, React, NodeJS, ExpressJS, Fast API, Java Spring Boot.
- **Databases:** SQLite, MySQL, MongoDB, PostgreSQL
- **Cloud technologies:** Google cloud technologies, Oracle Cloud.
- **Other:** Problem solving, Communication, Data Structures and Algorithms, Microsoft Office Suite.

PERSONAL PROJECTS

- **Predicting Animal Diseases (Machine Learning)**
Used multiple classification algorithms provided by Scikit-Learn to predict whether a farm animal is experiencing a particular type of disease.
Link: [Animal Disease Prediction](#)
- **Automatic Wallpaper and Quotes Downloader (Automation)**
Used BeautifulSoup to scrape a website and used requests to automatically download the scrapped data.
Link: [Bulk Wallpaper and Quotes Downloader](#)
- **Personal Website (Web Development)**
Using React for frontend and NodeJS for backend, I built a personal website that displays a little information about myself and has an SMTP server that allows visitors to send me emails. More features will be added in the next updated version.
Link: [Personal Website](#)
- **Employee Management System API (Web Development)**
Developed a RESTful API using Java and Spring Boot that enables users to perform CRUD operations on employee data stored in a MySQL database. Implemented features such as data validation, error handling, and secure authentication, ensuring seamless interaction with the system and efficient management of employee records.
Link: [EMS](#)
- **Gunshot Detector API (Web Development)**
Developed a FastAPI server to integrate a gunshot detection model with a Telegram bot. The server accepts WAVE sound files, which are processed by the model to detect gunshots. The result is then sent to a Telegram channel via the bot.
Link: [Gunshot Detector API](#)

CERTIFICATIONS AND ACHIEVEMENTS

- **Certificate of Completion, Internship - AmaliTech Ghana, May 2024**
[View Certificate](#)
- **First Runner Up, GAIATHON 2024 Hackathon – GAIAClubs, Sept 2024**
Worked with a team of undergraduates to develop an innovative solution addressing wildlife poaching. The solution integrated a FastAPI server with a pre-trained gunshot detection model to accurately identify gunshots from sounds detected by microphone sensors mounted on GAIA boards in real-time. This system alerts authorities via a Telegram bot.
[Project Link](#)
- **Quarter Finalist, A2SV Generative AI for Africa Hackathon – A2SV, Dec 2023**
Developed an innovative solution with a team of like – minded individuals across the African continent to provide a solution for the health sector by utilizing generative AI models like ChatGPT 3.5 model for quicker medical diagnosis based on patient's medical records.
[View Certificate](#)
- **Participant, PyData Data Science Bootcamp – PyData Ghana, Apr 2022**
Gained hands-on experience in data analysis, web scrapping, and data visualization using technologies such as Python, NumPy, Pandas and Selenium
[View Certificate](#)