

# AARON KATEY KUDADJIE

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## EDUCATION

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**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, Data Structures and Algorithms, Cloud Computing.

## EXPERIENCE

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**AmaliTech Ghana** – East-Legon, Ghana  
*Backend Developer (Intern)*

**Mar 2024 – Apr 2024**

- 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

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- **Languages:** Proficient in **Python**, Familiar with **Java**, **JavaScript**, **Typescript**, **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

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### **SparOnlineV1.0** – *Web Game Development (Full Stack)*

**Tech Stack:** React · Node.js · Express.js · Colyseus.js · MongoDB

- Developed a real-time, event-driven **multiplayer web game** replicating the logic of the Ghanaian card game *Spar*.
- Built a responsive **frontend with React**, and a scalable **backend using Node.js, Express.js, and Colyseus.js** for handling WebSocket communication, game state management, and matchmaking.
- Currently planning to integrate a **machine learning-based bot** to simulate intelligent human-like gameplay.
- [Link: [SparOnline V1.0](#)]

### **Gunshot Detector API** – *Web Development (Backend)*

**Tech Stack:** Python · FastAPI · Telegram Bot API

- Created a **FastAPI server** to integrate a gunshot detection model with a Telegram bot.
- The server receives **WAV audio files**, processes them using a trained model, and sends detection results to a specified **Telegram channel** in real time.
- [Link: [Gunshot Detector API](#)]

### **Employee Management System API** – *Web Development (Backend)*

**Tech Stack:** Java · Spring Boot · MySQL

- Designed and developed a simple **RESTful API** to perform full CRUD operations on employee records stored in a MySQL database.
- Implemented features including **input validation, exception handling, and secure authentication**, ensuring robust and efficient system interactions.
- [Link: [EMS](#)]

### **Automatic Wallpaper and Quotes Downloader** – *Web Automation*

**Tech Stack:** Python · BeautifulSoup · Requests

- Built a **web scraper and automation script** to extract wallpapers and motivational quotes from a website.
- Automated **bulk downloads** of scraped content to local storage.
- [Link: [Bulk Wallpaper and Quotes Downloader](#)]

## CERTIFICATIONS AND ACHIEVEMENTS

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- **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](#)