PRINCE SAMUEL KYEREMANTENG

Accra, Ghana|+233558 366 133| princesamuelpks@gmail.com | [LinkedIn](#) | [GitHub](#)

EDUCATION

MPhil. Computer Science
University of Ghana, Accra, Ghana
CGPA: 3.7/4.0

BSc. Computer Science
University of Ghana, Accra, Ghana
CGPA: 3.45/4.0

Relevant Coursework: Advanced Software Engineering, Data Structures and Algorithms, Programming II, Machine Learning (Python), Artificial Intelligence (Python), Databases (SQL), Research Method

RESEARCH EXPERIENCE

Missing Data Imputation Techniques, Challenges, Innovations and Applications: A Review
Oct. 2024 – Present

Main Author/Researcher, MPhil. Thesis, University of Ghana
- Conducted a literature review on missing data imputation techniques, their challenges, innovations and applications.
- Presented paper at a workshop conducted by the Department of Computer Science, University of Ghana for Postgraduates. I got the 3rd best paper award.

Federated Learning at the Edge: Enhancing Privacy and Efficiency in Distributed AI Systems
Graduate Research Assistant/Co-Author, University of Ghana   Jun-Jul. 2025
- Contributed to this research as a graduate assistance/co-author by conducting a comprehensive literature review on the topic.
- Managed papers and citations using the Mendeley platform.
- Designed architectural diagrams to illustrate concepts such as Federated Learning and various types of Federated Learning.

PoAD-Lite: A Lightweight, Activity-Aware Consensus Protocol for Scalable and Energy-Efficient IoT Blockchains
Jul-Aug. 2025

Graduate Research Assistant, University of Ghana
- Contributed to this research as a graduate assistance/co-author by conducting a comprehensive literature review on the topic.
- Managed papers and citations using the Mendeley platform.

WORK EXPERIENCE

University of Ghana, Department of Computer Science   Aug. 2023 – Present
Teaching Assistant / Graduate Assistant
- Lead tutorial sessions for Advanced Databases, Introduction to Artificial Intelligence, Management Principles in Computing.
- Facilitate lecture sessions and grading assignments and exams for undergraduate students.

Bricsky Software Development Company | Software Developer   Feb. 2024 – Aug. 2024

- Designed and implemented a robust Backend Architecture for the Oysloe Marketplace App.
- Developed efficient REST APIs to handle requests, improving API efficiency by over 20%.
- Implemented WebSocket connections for real-time communication. This led to faster response times and reduced latency.

PKay Software Consultancy | Founder and Lead Consultant   May. 2024 – Present
- Designed and led the implementation of several Softwares for different clients.
- I have been the lead consultant for several clients' projects. the feasibility and the need for management systems.
- Developed an Admissions Management System for Ghana Institute of Management and Public Administration (GIMPA). Client has received and processed over 1000 applications with the system.

HACKATHON

Nyansapo AI Hackathon   **4 - 6th** Oct 2023
- Collaborated with two students to participate in the Nyansapo AI Hackathon.
- Developed and presented a proof-of-concept model for detecting power outages in Ghana.
- We had the 4th best presentation out of 17 applicants.

VOLUNTEER/LEADERSHIP EXPERIENCE

Pkay Mentorship Program | Founder and Mentor   Sep. 2024 – Present
Mentorship | Training | Supervision | Code and Design Review
- Opened a free mentorship program for young undergraduate girls in technology.
- Mentored at least 20 girls in the fields of UI Design and Software Development.

Global Academy School | Volunteer Pupils Teacher   **Sep.** 2020 – Dec. 2020
Pupils Teacher
- Volunteered to teach ICT in the above basic school located in Oti Region of Ghana.
- Organized extra classes for students. This enabled us to finish the syllabus on time.

Bridge IT | Volunteer IT Trainer   **Oct.** 2020 – Dec. 2020
IT Trainer
- I volunteered to teach ICT literacy in the Biakoye district where I taught over 1000 students from about 20 different schools.
- The program took about 3 months to complete, and it was organized by the District Chief Executive of the District at the time.

SKILLS

Technical skills: Programming and Software Engineering, Data structures and algorithms, System Design, Machine Learning and Artificial Intelligence, Databases.

Languages: Python, Django, Flask, FastAPI, HTML/CSS/JS, API, Flutter, LLM and

Agents, Prompt Engineering.