

EMMANUEL DANSO

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EDUCATION

University of Ghana — Bachelor of Science in Physics with Computer Science

Aug. 2017 – Sept. 2021

- Relevant Coursework: Data Structures & Algorithms, Database Management, Computer Networking, Software Engineering, Telecommunication, Quantum Mechanics

ALX Software Engineering Program

Completed: November 2023

- Full-stack development training in Flask, Django, React, NodeJS, APIs, Docker, Kubernetes, Linux

TECHNICAL SKILLS

- Programming Languages: Python (Flask, Django), PHP, JavaScript (NodeJS, React), HTML5, CSS3
- Database Management: MySQL, SQLite, SQLAlchemy
- DevOps & Cloud: Linode, Linux, Nginx, Docker, Kubernetes
- Version Control & Collaboration: Git, GitHub
- Other Tools: WordPress, Bootstrap, API Development
- Multimedia: Video Editing (OBS Studio, Filmora, Avidemux)

WORK EXPERIENCE

Backend Software Engineer

Jan. 2024

- Designed and developed the backend architecture for the Odeen app using Python, APIs, and MySQL (SQLAlchemy).
- Implemented secure user authentication and database management.
- Collaborated with a cross-functional team to launch the app on Play Store and App Store.

National Identification Authority

Sept. 2021 – Oct. 2022

- Issued and validated national ID cards for citizens, ensuring data accuracy and security.
- Assisted with database management and processing of citizen information.

Management Information Systems Intern

Aug. 2019 – Oct. 2019

- Performed data backups, updates, and system optimizations across multiple departments.
 - Supported IT staff in troubleshooting and maintaining database and network systems.
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RESEARCH & PROJECTS

Odeen App [Link](#) (June 2024)

- Developed the backend using Python, APIs, and SQLAlchemy.
- Implemented authentication and data security for the app.
- Available on Play Store and App Store.

Learning and Job Recruitment Platform and E-commerce [Link](#) (in progress)

- Developed a backend using flask, SQLAlchemy, Bootstrap
- Implementing authentication for users and admin dashboards

Mindspring App [Link](#) (Feb. 2025)

- A mental health app designed using NodeJS, Express, React, and SQLite.
- Features meditation sessions, stress relief activities, and daily affirmations.

E-commerce Web Application [Link](#) (Aug. 2022)

- Developed a full-stack e-commerce platform using PHP, MySQL, and JavaScript.
- Implemented user authentication

Videos of my content creation

- [Link](#)
 - [Another Link](#)
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LEADERSHIP & VOLUNTEERING

Team Leader – Revenue Mobilization, Akuapem South Municipal Assembly (Aburi)

- Led a team in mobilizing and managing revenue collection for local development projects.

Google Developer Groups – Accra, Ghana

- Active participant in tech community discussions and workshops.
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INTERESTS

- Research in computational physics, artificial intelligence, and distributed systems
- Volunteering and community development
- Reading and watching technology documentaries.