

Swallieu Dawud

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EDUCATION

Ashesi University
BSc. Computer Science

Berekuso, Eastern Region
Date of Graduation: August 2024

St. Thomas Aquinas
Science (*WASSCE)

Cantonment, Accra
August 2016 - September 2019

ACHIEVEMENTS/AWARDS

***MasterCard Foundation Scholarship**, Ashesi University
***Dean's List**, Ashesi University

January 2021 – August 2024
September 2021 – April 2022

WORK EXPERIENCE

Software Engineer – CLA 360

October 2025 – Present

- Developed a **Credential Wallet** that enables students to securely store and verify academic documents and transcripts.
- Collaborated with cross-functional engineers to integrate the Credential Wallet as a standalone module within the wider CLA 360 platform.
- Built and maintained core frontend features for **CLA 360** using **React, Next.js, TypeScript, and Zustand**, ensuring scalability and clean state management.

Software Engineer – Solfa Africa

Feb 2025 – Aug 2025

- Designed RESTful Django APIs with well-structured data models, authentication and optimized query performance.
- Built scalable frontend in Next.js using SSR/SSG for performance, modular components for maintainability, and responsive design for multi-device accessibility.
- Integrated frontend and backend services seamlessly; wrote unit/integration tests and optimized endpoints for reliability, security, and reduced response times. .

Web Developer – Omlac Group

Mar 2024 – Nov 2024

- Engineered and deployed a responsive React-based company website, optimizing performance with React hooks, reusable components, and CSS grid/flexbox layouts.
- Integrated third-party email APIs to handle contact form submissions without a backend, ensuring secure and reliable communication flow.
- Collaborated with stakeholders to translate business needs into site architecture, aligning UI/UX with branding, product catalog presentation, and lead-generation goals.

BOST Company Limited – Shiashie, Accra

October 2024 – June 2025

IT Consultant

- Configuring and deploying Microsoft Dynamics 365, assisting employees in navigation, data entry, and system usage.
- Provided day-to-day IT technical support to staff and management to ensure minimal downtime

PROJECTS AND RESEARCH

Voxta – Full-Stack Polling Application

- Developed a secure MERN app for poll creation, voting, and category-based organization.
- Integrated JWT authentication for user access control and MongoDB for poll/vote storage.
- Designed modular architecture for scalability and maintainability.

Handi – MERN Stack Local Services Marketplace

- Developed a full-stack MERN platform enabling users to post, manage, and apply for local service jobs, secured with JWT authentication and role-based access control.
- Architected backend APIs for job listings, messaging, and user CRUD operations; integrated

- **Socket.IO** for real-time notifications and chat.
- Implemented Cloudinary for image handling, React with Redux for state management, and responsive UI design; delivered a production-ready system highlighting backend scalability and clean architecture.

Computer Vision(Activity Recognition for Examination Setting) **July 2023 – August 2024**

- Designed and implemented ML models to detect and classify activities in exam halls.
- Built a curated dataset from exam environments, applying preprocessing, annotation, and augmentation for optimal training results.
- Experimented with CNNs, transfer learning, and OpenCV-based techniques to improve accuracy.

Afrotales(Cultural Media Platform)

- IMDB-style platform for African cultural media using React, Firebase, and Redux, featuring role-based authentication, advanced search, watchlists, and content moderation.
- Engineered Firestore data models and optimized UX.

CO-CURRICULAR ACTIVITIES

Ashesi University, Basketball Association

August 2022 – April 2023

ABA Statics Head

- Collected and analyzed game data to optimize player performance and strategies, improving team efficiency by 20%.

SKILLS

- Programming Languages (Proficient in Java, JavaScript, C, C++, Dart, and Python)
- Frameworks/Libraries: React, Express, Redux, Flutter, Django.
- Database and Storage: MongoDB, Firestore, SQL, Cloudinary (media storage/management)
- ML/AI Tools: OpenCV, TensorFlow, Scikit-learn
- Others: REST API development, JWT, Postman, Socket.io, Microsoft Dynamics 365
- Soft skills like public speaking, teamwork, leadership skills, and problem-solving.

REFERENCES

Available upon request

***WASSCE** – West African Senior School Certificate Examination

***Dean's List** – Awarded to students with a GPA of 3.5 or above in a particular semester