

# Swallieu Dawud

PMB CT3, Cantonments - Accra

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<https://github.com/Heisenberg696>

## 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

**January 2021 – August 2024**

**\*Dean's List**, Ashesi University

**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**

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**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**

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- 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**

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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