SHAUN ATO AIFOLI ESUA - MENSAH

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Ashesi University — Berekuso, Eastern Region
BSc. Computer Science — Expected Date of Graduation: Jun 2027

Akosombo International School — Akosombo, Eastern Region
General Science — Date of Graduation: Oct 2023

ACHIEVEMENTS / AWARDS

Vice President (Finance), Akosombo International School 2023 Alumni Association

Dean's List Honors, Ashesi University (2025)

Honourable Mention, LifeLink Model United Nations Conference (Sep 2024)

WORK EXPERIENCE

SAI Technology
Backend Intern, Remote — Mar 2026 - Present

- Engineered a shared controller-layer validation pipe for positive numeric route IDs, standardizing input rejection across payment and payout method endpoints and ensuring all invalid requests are rejected with 400 Bad Request before reaching service logic.
- Introduced Jest coverage thresholds from scratch in CI, establishing a quality gate across statement **(69%)**, branch **(48%)**, function **(46%)**, and line **(68%)** metrics.
- Developed a driver-to-vehicle assignment feature and contributed to vehicle onboarding flows for bus owner organisations as part of the SWIFT-OS platform built with NestJS.

Ashesi University Logistics Team
Software Developer, Berekuso - Ghana — Feb 2026 - May 2026

- Built a resource monitoring dashboard using React tracking **4** water tanks and **2** treatment pipes in real-time, enabling the logistics team to derive actionable insights from utility data.
- Developed a preventive maintenance dashboard managing **228** scheduled tasks, with automated daily email alerts dispatched to responsible personnel to ensure zero missed maintenance windows.
- Designed and implemented an issue-reporting dashboard that aggregates student-reported logistical problems alongside a 360-degree virtual campus tour, allowing students to pin and report issues directly to specific locations.

FIDO Micro Credit LTD
Data Intern, Accra - Ghana — Jun 2025 - Aug 2025

- Analyzed over **2,797,709** loan disbursement and repayment records to uncover patterns that improved risk assessment models, contributing to a **7%** reduction in default rates.
- Contributed to the designing of an ETL pipeline that processed Google Ads performance rows weekly, cutting marketing analysis time by **20%**.
- Engineered version 1 of Axon AI, a Chrome extension currently being used by FIDO that increased customer service response speed by **30%** by delivering real-time knowledge-base suggestions during chats.

Algoverse AI Research Program
Applied Machine Learning Researcher, Remote — Nov 2024 - Apr 2025

- Trained and tested GPT-4o AI models to solve formal logic problems, reaching **95.97%** accuracy on practice dataset showing a major boost in problem-solving precision.
- Demonstrated strong generalization by achieving **99.89%** accuracy on completely new logical problems, revealing GPT-4o's ability to reason correctly even on unfamiliar tasks.
- Presented these results in a co-authored research paper at the NAACL Student Research Workshop, a leading AI conference attended by over **2,307** participants.

SKILLS

- **Programming Languages:** Python, Java, HTML, CSS
- **Databases & Cloud:** MySQL, Snowflake
- **AI & Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers
- **Data Processing & Analytics:** Pandas, NumPy, ETL pipelines
- **Tools & Platforms:** Postman, Overleaf, Git/GitHub, Jupyter Notebooks
- **Core Strengths:** Problem Solving, Analytical Thinking, Research & Technical Writing