

# JONATHAN DARKO ADOO

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## SUMMARY

Computer Engineering student at KNUST passionate about full-stack development, robotics, and scalable systems. Proven experience leading software teams and delivering production-ready projects under tight deadlines. Seeking a technology or software engineering internship at a global institution to apply analytical, programming, and problem-solving skills.

## EDUCATION

Kwame Nkrumah University of Science and Technology (KNUST)  
Bsc. Computer Engineering

Kumasi, Ghana  
September, 2026

## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript (ES6+), TypeScript, SQL

**Frameworks & Libraries:** React, Next.js, Node.js, Express, TailwindCSS

**Databases:** PostgreSQL, MySQL, MongoDB

**Tools:** Git, GitHub Actions (CI/CD), Docker, Linux (Ubuntu), REST APIs

**Core Competencies:** Full-Stack Development, Algorithms, Robotics (ROS2, Jetson, SLAM)

## EXPERIENCE

### Mikrobot Academy

Accra & Kumasi

#### Robotics Trainer

Aug 2022–Present

- Instructed 50+ students in Arduino and LEGO EV3 programming; led 3 teams to win local robotics competitions.
- Designed hands-on training modules in electronics, sensors, and automation.
- Cultivated strong communication, leadership, and collaborative problem-solving skills.

### A2SV Hackathon

Remote

#### Frontend Developer

Nov–Dec 2023

- Led a 4-member team to integrate REST APIs and deliver a working MVP within 1 week.
- Advanced to quarter-finals for innovation and rapid prototyping capabilities.
- Collaborated using Git for version control and agile task management.

## PROJECTS

### Full-Stack Discord-Style Chat App - React, Node.js, PostgreSQL, WebSockets

- Designed a scalable real-time messaging app with authentication and live updates.
- Optimized SQL queries and socket connections to handle high user concurrency.

### Task-Matching Platform - Next.js, TypeScript, MongoDB

- Built an end-to-end task platform enabling user authentication, dynamic listings, and API-driven data management.
- Improved page load time by 35% through server-side rendering and API optimization.
- Deployed on Vercel with secure JWT-based authentication.

### Skabba E-Commerce App - Next.js, Clerk, MongoDB

- Implemented product listings, shopping cart, and automated order workflows.
- Integrated serverless functions for high scalability and fast response times.

### ROS2 Robotics Mapping Project - Python, C++, ROS2 Jazzy

- Programmed a Jetson-powered differential drive robot using RPLidar for real-time SLAM mapping.
- Implemented sensor data visualization and robot navigation in simulated and physical environments.
- Strengthened understanding of autonomous systems and sensor fusion.

## CERTIFICATIONS

Google UX Design - Coursera (2023)

## ACHIEVEMENTS & INTERESTS

- 1st Place World Robofest Unknown Mission Challenge
- Interests: Design innovation, open-source development, AI and robotics, mentoring young engineers