

Career Profile

A Computer Science graduate and MSc candidate at Lakehead University with a proven track record of building and deploying full-stack web applications across healthcare, e-commerce and agritech. Equipped with a solid foundation in JavaScript, React, Next.js and Node.js, with over three years of experience across software development internships and network operations at Huawei Technologies.

Core Skills

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|------------------------|------------------------------------------------------------------------------------------------------|
| Languages              | JavaScript (React JS, Next.js 13, Node.js), SQL, HTML and CSS, VBScript, PowerShell, C/C++ (Arduino) |
| Frameworks & Libraries | React JS, Next.js 13, Node.js, Chakra UI                                                             |
| Databases              | MongoDB, SQL, Amazon AWS                                                                             |
| Design & Prototyping   | Figma                                                                                                |
| Hardware & Embedded    | Arduino, MQ-2 sensor integration, GSM modules                                                        |
| Business Tools         | MS Excel, MS PowerPoint, Power Query, U2020, MAE                                                     |
| AI Tools               | ChatGpt, Claude AI, Cursor, DeepSeek.                                                                |

Professional Experience

Huawei Technologies, Network Assurance & O&M AssociateOctober 2024 – November 2025

Outline: Deployed within the Ghana Network Assurance and Operations & Maintenance department, accountable for network monitoring, fault resolution and the rollout of new site infrastructure across client networks.

Key Responsibilities

- Implement new technologies into the live network environment, ensuring compatibility with existing infrastructure.
- Handled overall fault detection each day in the Telecel customers network.
- Monitor and maintain network performance, identifying and escalating faults to meet service-level agreements for uptime and resolution time.
- Support the deployment and commissioning of new network sites, including configuration, verification and handover to operations.
- Communicate technical status and incident detail across engineering teams and client stakeholders.

Key Achievements

- Contributed to the deployment of over 30 new sites across the Greater Accra Region
- Recognised with a Certificate of Outstanding Performance for contribution to departmental service delivery.
- Halved average network fault resolution time through improved monitoring and escalation practices.

Global Icons, Software Developer (Intern)September 2023 – September 2024

Outline: Backend-focused development role supporting the build and maintenance of company web applications.

Key Responsibilities

- Develop and maintain backend services in Node.js, including API endpoints and data handling logic.
- Implement frontend components using JavaScript frameworks in line with agreed design specifications.
- Collaborate with design and product stakeholders to translate requirements into working features.

Key Achievements

- Contributed to the end-to-end development of web application features, from implementing backend logic and APIs to integrating them with the frontend.
- Improved application functionality by identifying and resolving bugs across backend services and frontend components.

## **GROWFROME, Software Developer (Intern)**

**October 2022 – December 2022**

*Outline:* Frontend development role supporting the build of the company's primary client-facing platform, connecting smallholder farmers with investors.

### *Key Responsibilities*

- Develop responsive and reusable interface components using React.js and Next.js.
- Implement client-facing features on the company's primary platform in line with product and business requirements.
- Translate UI/UX designs and wireframes into functional, responsive web interfaces.
- Integrate frontend components with backend APIs to support dynamic application functionality.

### *Key Achievements*

- Delivered features on the company's primary platform, contributing to a 15% improvement in farmer access to investors.
- Built responsive and reusable React.js and Next.js components that supported key user-facing workflows.
- Translated product requirements and design specifications into functional features for the company's primary client-facing platform.

## **Notable Projects**

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### **Xtrack:** Expense Tracker for Students | Next.js 15, Supabase

Students manage income, tuition and living costs across two currencies with tools built for domestic users. Xtrack solves this with multi-currency tracking, budget management and a runway estimator that shows how long current funds will last. Built with Supabase auth and persistence; AI-driven financial advice in development.

### **Smart Gas Detection System | Arduino, MQ-2 sensor, GSM module**

Domestic gas leaks often go unnoticed until someone is in the room. This system detects gas and smoke via an MQ-2 sensor and pushes SMS alerts through a GSM module, so occupants are notified when away. Validated in a custom enclosure simulating real-world conditions.

### **PharmaInc:** Pharmacy & Teleconsultation Platform | Next.js, Supabase, Vercel

Patients in remote and underserved areas face long travel times for over-the-counter medication and routine consultations. PharmaInc provides both online in one interface. Later re-architected off a decommissioned AWS stack onto Vercel and Supabase, cutting hosting costs to zero while keeping the service live.

### **Smart Street Light System | Arduino, motion and light sensors**

Street lights run at full output through empty streets, wasting energy. This system adjusts brightness based on ambient light and motion, cutting consumption during low-traffic hours without reducing safety coverage.

### **Eau Clair:** Premium Water Brand Platform | Next.js 15, Three.js, Supabase

Beverage packaging is hard to evaluate from flat product photography. Eau Clair renders the bottle in 3D with Three.js and texture mapping, letting customers inspect the product from any angle. Optimised for mobile performance, where 3D payloads typically degrade load times.

## **Education & Qualifications**

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### **University of Ghana, Legon**

**September 2021 – September 2024**

Bachelor of Science (BSc Computer Science)

### **Lakehead University, Canada**

**January 2026 – December 2026**

Master of Computer Science (MSc Computer Science)

## **Certification**

- Google SRE certificate
- Certificate of outstanding performance (Huawei Technologies, Ghana).
- LinkedIn web development Program. Completed course

## **References**

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- Available upon request