DZAH SOLOMON

❖ *https://ziglacity.github.io/portfolio* ❖ *https://github.com/ZiglaCity* ❖ (+233) 59 219 4480 ❖ *dzahsolomon@gmail.com*

EDUCATION

University of Ghana, Legon   **Expected graduation date**: July 2027
Degrees: BSc. Computer Science   **GPA: 3.8 / 4.0**

SUMMARY

Backend Engineer passionate about building scalable, secure systems and AI-powered solutions. Skilled in Node.js, FastAPI, and cloud deployments with experience leading projects from architecture to production.

SKILLS

- **Programming languages**: Python, JavaScript, TypeScript, SQL, HTML, CSS
- **Frameworks & Libraries**: React, Node.js, Express, FastAPI, Prisma, Tailwind CSS, PyQt, Tkinter,
- **Development Tools:** Git/GitHub, VSCode, Docker, Prettier
- **Concepts & Techniques**: Object-Oriented Programming (OOP), API Design, System Design, DevOps (CI/CD), Caching (Redis)

EXPERIENCE

MerryLow - Accra, Ghana   *November 2024 - present*
Backend Engineer   ***Node, Express, PostgreSQL, Prisma, Typescript, Redis***
- Designed and implemented scalable REST APIs handling **20+ daily orders**, ensuring secure and efficient transactions.
- Optimized PostgreSQL queries and schema, improving query performance by **35%** and reducing downtime.
- Integrated Redis caching to cut API response times by **50%** under heavy traffic.
- Established CI/CD pipelines with GitHub Actions, reducing release cycles by 40% and minimizing deployment risks.

PROJECTS

SafestCode| React, Typescript, Nodejs, Express, Python, AI   *https://github.com/ZiglaCity/SafestCode*
- Built an AI-powered code analysis tool supporting **3+ languages**, detecting **90%** of common security flaws in under **2 seconds** per scan.
- Designed modular architecture and interactive UI with real-time scanning and automated fix suggestions, improving developer efficiency by **30%**.

ProxyPhish | Javascript, React, Nodejs, Express   *https://github.com/ZiglaCity/ProxyPhish*
- Developed phishing detection system with URL pattern analysis & risk scoring, identifying malicious links with **95% accuracy.**
- Built responsive UI for real-time reports and threat visualization, enhancing security awareness for users.

ZTube| YouTube API, Python, Tkinter   *https://github.com/ZiglaCity/ZTube*
- Created a desktop app for downloading YouTube videos with **4+ quality** options and thumbnail previews.
- Added multithreading for smooth downloads, reducing waiting time by **40%.**

Library Management System | Python, Tkinter, SQLite   *https://github.com/ZiglaCity/LMS*
- Built an app to manage 1000+ library records with advanced search by multiple attributes.
- Enabled efficient book tracking (borrowing, returns), reducing admin work by **30%**.

Crop Doc - Team Project | FastAPI, Supabase, AI   *https://github.com/ZiglaCity/crop-doc*
- Developed backend for an AI-powered crop disease detection app processing **100+ scans daily.**
- Built image analysis pipeline with FastAPI and AI inference**,** reducing diagnosis time from **minutes** to **seconds.**

EXTRACURRICULARS & LEADERSHIP

- **Clubs**: A2SV (Africa to Silicon Valley) – Advanced algorithms, team projects, and engineering excellence.
- **Interests:** Building Scalable Systems & Secure Architectures, AI & Intelligent Automation, Cybersecurity Awareness & Ethical Hacking, Open Source Development, Late-Night Coding & Personal Projects, Chess, Music Production, Freestyle Football, Skating