OWDEN MAGNUSEN

Systems Architect | Backend Engineer | DevOps Engineer

Accra, Ghana • me@owdenmagnusen.com • +233 57 796 3544 • owdenmagnusen.com

PROFESSIONAL SUMMARY

Systems Architect and Backend Engineer with 5+ years of experience designing and building scalable backend systems, cloud infrastructure, and AI-powered platforms. Skilled in system architecture, distributed systems, DevOps, and cloud-native application development, with hands-on expertise in AWS, Docker, CI/CD pipelines, and modern backend frameworks. Combines a strong engineering foundation with a background in creative technology to deliver systems that are technically robust, secure, and built for scale.

PROFESSIONAL EXPERIENCE

Lead Software Engineer / Systems Architect – Aurelo Technologies *July 2025 – Present*

- Architect scalable backend systems and cloud-native applications for startup and enterprise clients.
- Design distributed systems, REST APIs, authentication services, and platform infrastructure.
- Build AI-powered products and workflow automation platforms using Python, TypeScript, FastAPI, and Node.js.
- Deploy and manage production applications on AWS using Docker, reverse proxies, and CI/CD pipelines.
- Set engineering standards for software architecture, security, deployment, and performance across client projects.

AI Data Specialist – RWS Group (Contract) *September 2025 – May 2026*

- Evaluate multimodal datasets spanning text, audio, and images to support AI model training.
- Improve model performance through structured annotation and quality assurance review.
- Analyze edge cases to strengthen model accuracy and consistency, maintaining strict quality benchmarks.

Design & Development Associate – iamadinkra (Contract) *February 2025 – May 2025*

- Built backend applications with Flask and Django.
- Integrated Google Workspace APIs, including Drive, Docs, and Sheets, into internal tools.
- Developed administrative dashboards with analytics and reporting features.
- Designed scalable CRUD systems and automated backend workflows.

Technical Volunteer – Software Engineering & Visual Systems – ICGC Christ Temple East *August 2017 – Present*

- Develop internal software tools supporting ministry operations and technical teams.
- Design automation workflows for technical and media production teams.
- Maintain audiovisual and production systems for large-scale live events.
- Provide technical leadership during major productions and live broadcasts.

SELECTED PROJECTS

Anchor by Aurelo – anchor.aurelo.cc

Event Infrastructure Operating System: a SaaS platform for live event streaming, ticketing, and event management, built for event organizers, creators, conferences, and broadcasters. Features multi-tenant organization management, livestreaming, check-ins, and analytics on a distributed backend with secure authentication and Dockerized services.

Aurelo Technologies Platform

Designed cloud infrastructure, deployment pipelines, backend services, authentication, and developer tooling.

Eventify

Eventify, a robust web application designed to simplify event registration and participant management for organizers. The system allows participants to register seamlessly with key details such as name, phone number, email, occupation, and company. A secure admin dashboard provides organizers with real-time access to participant data, including timestamps, and features the ability to print customized neck tags for easy identification during events.**Event Production Automation** Built software and automation tools supporting large-scale live productions.

TECHNICAL SKILLS

Architecture: Systems Design, Software Architecture, Distributed Systems, API Design, Microservices, Authentication & Authorization, Scalability, Performance Optimization

Cloud & Infrastructure: AWS, Oracle, Docker, Linux, Nginx, Caddy, GitHub Actions, CI/CD Pipelines, Infrastructure Automation, RabbitMQ, Celery, GitHub, GitLab.

Backend: Python, FastAPI, Django, Flask, Node.js, Express, TypeScript, JavaScript, Go, Java

Databases: PostgreSQL, MySQL, Redis, SQLite, SQLAlchemy, Superbase

Frontend: React, Next.js, HTML5, CSS3, SCSS, Tailwind CSS

AI & Automation: AI Workflow Automation, Prompt Engineering, AI Integration, Data Annotation, Model Evaluation

EDUCATION

Bachelor of Science in Computer Science
University of the People •