Solomon Ampomah

Full-Stack Developer

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Objective

Versatile Full Stack Developer with over 5 years of experience in designing, developing, deploying, and maintaining dynamic web applications. Proficient in Javascript, Python, and database management, with expertise spanning both front-end and back-end technologies. Skilled in leveraging machine learning algorithms and AI-driven solutions to address real-world business challenges. Experienced in cloud computing and building scalable, high-performance systems. Passionate about continuous learning and innovation, I am dedicated to delivering impactful solutions and driving success within a collaborative development team.

Education

MSc Artificial Intelligence and Data Science
University of Hull
09/2022 – 01/2024 | Hull, England

BSc Computer Science
Kwame Nkrumah University of Science and Technology ↗
09/2015 – 06/2019 | Kumasi, Ghana

Work Experience

10/2022 – present
Remote, USA

Software Developer
Invisible Technologies Inc.
- Designed and implemented robust, scalable web applications using TypeScript, NextJS, and React, following modern JavaScript best practices to ensure high code quality and maintainability.
- Spearheaded the development and maintenance of a monorepo structure with micro frontends using NX Workspaces, streamlining cross-team collaboration and accelerating feature delivery.
- Integrated Prisma with PostgreSQL to create efficient data models and queries, ensuring data integrity and optimal performance across multiple projects.
- Deployed applications on Kubernetes clusters, enhancing reliability and scalability while using tRPC for streamlined, type-safe API communications.
- Collaborated in agile environments, participating in code reviews, sprint planning, and daily stand-ups—to drive continuous improvement and adopt new technologies and methodologies.

- Actively researched and experimented with emerging tools and frameworks to optimize development workflows, contributing to a culture of innovation and technical excellence.

07/2021 – 09/2022
Accra, Ghana

Software Engineer (Team Lead)
THE QUANTUM GROUP LIMITED
- Developed automation scripts to enhance data processing efficiency for data migrations.
- Implemented data caching mechanisms, reducing database queries and improving overall system performance.
- Developed, tested, and debugged custom Python modules utilized by clients and internal customers to facilitate an easier process and user experience.
- Actively contributed to process improvement, simplifying and enhancing deployment processes for new features and functionality within the team.
- Innovatively crafted Python APIs, facilitating seamless integration of ERP data with independent ecommerce platforms, contributing to enhanced cross-platform functionality.
- Collaborated closely with different teams to produce practical solutions that aligned seamlessly with business objectives.

07/2019 – 06/2021
Accra, Ghana

Software Engineer
THE QUANTUM GROUP LIMITED
- Developed a reporting app, and a discharge app for station managers on the field to report daily fuel sales, report discharged products into tanks, and report faulty equipment to headquarters.
- Developed high-performance microservices using Flask, integrated with Keycloak for secure user authentication, Kafka for real-time event streaming, and Celery for distributed task processing.
- Developed ML models to predict the annual sales of fuel for each station under the company
- Developed Odoo modules to be used at the headquarters to receive and analyze reports coming from station managers and also modules used by departments like treasury, finance and accounting, and marketing.
- Provided technical support for ERP modules developed.

Skills

Programming Languages
JavaScript, Python, Java, Kotlin, Swift, Dart

Mobile Development
React Native, Flutter

Databases
SQL (MySQL, PostgreSQL) and NoSQL (MongoDB, Firebase)

Message Queues
 Kafka, RabbitMQ

Tools & Platforms
Git, Github, Vercel,
AWS services (S3, ECS)

Frontend Development
React (TypeScript), Next.js, Vue, Tailwind CSS, Bootstrap

Backend Development
Node.js (Express), Flask, FastAPI, Django, Payload CMS

APIs
REST, GraphQL, SOAP

Automation / Build
Docker, Ansible, Airflow, Azure DevOps Server, AlertManager, Grafana, Sentry

Testing & Code Quality Tools
 Cypress, Jest, SonarQube

Projects

SavvyCent
A **comprehensive finance management platform** built using **React**, **Next.js**, and **TailwindCSS**, it offers users the ability to **track income and expenses across multiple accounts** with **smart categorization** (e.g., shopping, rent, food, salary). The platform integrates **AI-powered receipt data extraction** via **OpenAI's API**, simplifying data entry and enhancing accuracy. Users can set up **recurring transactions**, receive **email alerts** when approaching spending limits, and analyze financial data through **interactive charts and visualizations** implemented with **Recharts**. Additionally, **monthly AI-generated reports** provide personalized insights into spending habits. The backend utilizes **Prisma** with a **PostgreSQL database** hosted on **Supabase**, while **Clerk** manages secure user authentication. To ensure system integrity, **Arcjet** is employed for **rate limiting** and **bot detection**, and **Inngest** handles **scheduled tasks** like budget alerts and processing recurring transactions.
Live Demo ⧉

SkyVault
A **production-ready storage management and file-sharing platform** inspired by industry leaders like **Google Drive, Dropbox, and OneDrive**. Designed for **seamless file uploads, organization, and sharing**, SkyVault leverages the latest **Next.js 15, React 19, and Appwrite technologies** to deliver a **scalable, high-performance solution**. With features like **secure authentication, global search, advanced file management, and a modern, responsive UI**, SkyVault offers a **cutting-edge user experience** for individuals and teams managing large-scale storage needs.
Live Demo ⧉

Laundry Management System
Engineered a robust and user-friendly **laundry management application** using **Next.js**, **Tailwind CSS**, **Node.js**, **Prisma**, and **PostgreSQL**. The system efficiently handles **customer orders**, tracks clothing items, and **notifies customers** when their laundry is ready for pickup. Additionally, it provides **administrative analytics and detailed reports**, enabling data-driven decision-making and improved operational efficiency.