

ELVIS OPOKU AMOAKO

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Open to Remote Roles Worldwide | Available for Visa Sponsorship

PROFESSIONAL SUMMARY

Full-stack Software Engineer with 5+ years of professional experience designing, building, and leading the delivery of scalable web applications. Proven track record of leading cross-functional teams (up to 4 engineers), architecting data-persistent systems, and mentoring junior developers. Proficient in Java/Spring Boot, Python/FastAPI/Flask, TypeScript/React/Next.js, and PostgreSQL. Experienced working in distributed, multicultural teams (including remote engagement with Morgan Stanley). Passionate about clean code, test-driven development, and continuous improvement.

TECHNICAL SKILLS

Languages: Python, Java, Scala, JavaScript, TypeScript

Frontend: React, Next.js, Svelte, HTML/CSS, Figma (UI/UX Design)

Backend: Spring Boot, FastAPI, Flask, Node.js, RESTful APIs, Microservices Architecture

Databases & Data: PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Kafka

DevOps & Tools: Git, CI/CD Pipelines, Docker, Linux/Unix, Google App Script, Airtable

PROFESSIONAL EXPERIENCE

Software Engineer III | Turntabl Ltd.

Accra, Ghana (Remote collaboration with global clients) | Dec 2024 – Present

- Lead architect and developer of the company's Payroll Web Application, transforming it from a stateless app into a comprehensive data-persistent system with robust database integration using Spring Boot and Next.js.
- Designed and built an employee self-service portal enabling staff to manage personal payroll information, reducing HR overhead and improving data accuracy.
- Developed a real-time analytics dashboard for management, providing insights into payroll metrics, cost analysis, and operational efficiency indicators.
- Architected and delivered an Attendance Monitoring Application with sophisticated time tracking, streak calculation algorithms, and gamification features to drive employee engagement.
- Implemented an advanced notification system with automated alerts and deadline reminders, streamlining administrative workflows for payroll administrators.
- Mentored junior developers and conducted regular code reviews across multiple projects, maintaining high code quality standards.

Software Engineer II | Turntabl Ltd.

Accra, Ghana | Dec 2022 – Dec 2024

- Led a team of 4 engineers to build and ship Turntabl's Payroll Web Application using Spring Boot (backend) and Next.js (frontend), managing the full SDLC from requirements gathering to deployment.
- Collaborated with DevOps to configure clusters, resolve CI/CD pipeline issues, and automate operational processes through scripting.
- Developed a bank Sort Code retrieval algorithm and payroll notification system integrated with Google Chat and Google Calendar via Google App Script.
- Led development of a Background Checks Automation tool, reducing manual effort in employee onboarding processes.
- Performed code reviews and refactored codebases across Python, Google App Script, Next.js, and Spring Boot.

Python Tutor – Global Code Programme | Turntabl Ltd.

Accra, Ghana | Aug 2022 – Present

- Instructed students in Python fundamentals and advanced concepts, guiding hands-on development of RESTful APIs using Flask, including routing, database integration, and API documentation.
- Taught MQTT protocol implementation for IoT applications, covering broker setup and publish-subscribe patterns.

- Mentored students through independent technical research and project development, from ideation to deployment.
- Developed curriculum materials and conducted code reviews to improve students' coding standards and software architecture understanding.

Junior Software Engineer | Turntabl Ltd. (Contingent Worker – Morgan Stanley)

Remote – Multicultural Team | Jan 2021 – Dec 2022

- Worked remotely as a contingent worker for Morgan Stanley (Investment Bank), maintaining backend systems using Scala in a globally distributed, multicultural team.
- Authored comprehensive technical documentation on newly adopted technologies, serving as onboarding guides for new developers.
- Led a team of 4 to build a Spring Boot microservices-based Trading Engine Platform for an internal competition, finishing 2nd place.

Web Developer | Code Coast Training Center (Ghana Tech Lab)

Cape Coast, Ghana | Jun 2020 – Sep 2020

- Built backend microservices in Node.js and Python, and developed a COVID-19 tracker website with React frontend consuming RESTful endpoints.
- Led UI/UX design for a food delivery app (Edziban-Pa Route), conducting user experience research and design.

PROJECTS

Crancest – Fund Management App | Lead Frontend Engineer | Aug 2023 – Present

Leading frontend development of an NGO application for managing resource allocation for children in a charitable foundation.

Web Crawler | Lead Developer | Feb 2022 – Mar 2022

Built a Python-based web crawler using depth-first search algorithm with 90% test coverage.

BlackJack (Scala) | Developer | Oct 2022 – Nov 2022

Created a BlackJack game application in Scala, applying functional programming principles.

EDUCATION

BSc. Engineering Physics – University of Cape Coast, Ghana | Sep 2015 – Aug 2019