

Dominion Gbadamosi

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Summary

Backend-focused software engineer with strong experience in building scalable microservices and APIs using Java, Spring Boot, and Python. Passionate about designing systems and product-focused engineering

Education

University of Limerick (*B.Sc. in Computer Science - 2.1*) Aug 2024

Relevant Coursework: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Deep Learning

Skills (*** Proficient, * Intermediate*)

Key Backend Skills: Microservices, SQL/NoSQL, CI/CD, Docker, AWS, Azure, Git

Languages: Java** (Spring Boot), Python* (FastAPI), Go, JavaScript**, TypeScript*

Professional Experience

DataForce Jan 2025 – Present

AI Data Analyst Cork, Ireland

- Improved AI object detection accuracy by 15%, verified through A/B testing with 10,000 image samples
- Implemented new annotation methodology that cut processing time by 30% while maintaining 90% precision

Headstarter AI Jul 2024 – Sep 2024

Software Engineer Intern Remote

- Developed backend for AI flashcard app (Next.js, Firebase) serving 500+ users with 92% weekly retention rate
- Optimized API performance on Vercel, reducing average response time from 1.2s to 0.3s under 1,000+ concurrent requests

University of Limerick Apr 2023 – Jun 2024

Software Engineering Tutor Limerick, Ireland

- Provided tutoring services to fellow students in subjects such as OOP, Software Architecture + Design Patterns etc.

General Motors Jun 2022 – Dec 2022

Software Engineer Intern Limerick, Ireland

- Built office reservation system (Angular, Spring Boot) that increased workspace utilization from 20% to 75%
- Achieved 40% faster API response times through query optimization, reducing average page load from 4s to 3s
- Implemented automated testing suite that caught 24% more bugs pre-deployment compared to previous processes, adding monitoring and logging to the process to tackle issues faster

Projects

🔗 **Real-Time Chord Recognition (ChordN8)** | Python (FastAPI), Next.js Apr 2025

- Built a full-stack AI-powered web tool for extracting and visualizing chords from audio files using a multi-stage ML pipeline (Demucs + CREPE + madmom)
- Designed FastAPI backend with server-sent events (SSE), enabling real-time progress updates during long-running audio analysis tasks
- Improved average chord detection accuracy from 70% to 90% through tuning detection, output normalization, and error fallback strategies

🔗 **Educational Streaming Site** | Spring Boot, React, AWS, MySQL Jul 2024

- Engineered microservices reducing average API response time from 450ms to 270ms under simulated load of 200 concurrent users
- Secured 18 API endpoints with Spring Security using JWT authentication, achieving zero vulnerabilities in penetration testing
- Optimized content delivery using AWS services, decreasing average video load time from 6s to 2s while reducing bandwidth costs by 35%