Emmanuel Idoro

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EDUCATION

Bachelor of Science, Software Engineering 09/2022 – 06/2028 | Calgary, Canada
University of Calgary, Schulich School of Engineering

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (Java), Software Design (C++), Databases, Operating Systems, Probability & Statistics.

SKILLS

Programming languages: Python, Java, SQL, C, C++, JavaScript, TypeScript, C#, HTML, CSS

Frameworks & Libraries: React, Django, FastAPI, Flask, REST APIs, scikit-learn

Tools/Technologies: AWS, Docker, Docker Compose, dbt, DuckDB, Git, GitHub, GitHub Actions, Prometheus, Grafana, Trivy, WebSockets, Figma, Postman, Microsoft Excel, Microsoft Teams

PROFESSIONAL EXPERIENCE

Mindrift AI 03/2025 – Present | Remote
AI Model Trainer
• Analyze 150+ coding and reasoning tasks per week across Python, Java, JavaScript, and SQL to turn ambiguous instructions into step-by-step prompts that improve model task pass rates by about 10% on key queues.
• Design and iterate on 30+ test-style prompts, edge cases, and unit-test scenarios per week using data structures, APIs, and database queries to surface 5–10 recurring logic, performance, and error-handling failures before they reach production use.
• Coach models and contributors by scoring 200+ outputs weekly against structured rubrics and writing targeted feedback, tightening guideline adherence across reviewers and cutting follow-up corrections by roughly 25%.

Outlier AI 09/2024 – 08/2025 | Remote
Al Model Trainer
• Reviewed 200+ model outputs per week using tagged rubrics to spot recurring error patterns and recommend changes that increased task pass rates by roughly 10% across key queues.
• Created and iterated on 50+ realistic example problems and reference solutions in Python, JavaScript, and SQL each month to build training datasets that mirrored real business and technical scenarios.
• Partnered daily with queue managers and a distributed team of 10+ reviewers through shared trackers, comments, and quick syncs to unblock edge cases, keep turnaround times within 24–48 hours, and maintain consistent labeling standards across projects.

Learn Easy Academy 05/2023 – 08/2023 | Lagos, Nigeria
Software Developer Intern
• Maintained the tutoring site with HTML/CSS/JavaScript, improving average page load from 3.2s to 1.8s and helping more students complete bookings on mobile and desktop.
• Optimized database jobs and indexes to drop p95 query time from 480ms to 160ms and cut slow queries over 1 second to a small fraction of total traffic.
• Implemented student/tutor features end-to-end (UI + API) and resolved production bugs, lifting completed bookings by 12% over the internship period.

PERSONAL PROJECTS

FinSight – Anomaly-Detection Web API (Python, FastAPI, PostgreSQL, Docker, dbt, Grafana)
• Implemented an end-to-end anomaly-detection pipeline in Python and SQL that ingests batches of 10K+ synthetic banking transactions, engineers 20+ fraud features, and scores them through a FastAPI service.
• Designed a PostgreSQL schema and 5+ transformation scripts to power dashboards that let analysts slice transactions by customer, merchant, and risk band in under 2–3 seconds per query.
• Containerized the API, worker, and analytics UI into a 3-service Docker Compose stack so new environments spin up in under 1 minute with a single command on any Docker-capable host.

PipelineX – DevOps / SRE Layer for FinSight (GitHub Actions, Docker Compose, Prometheus, Grafana, Trivy)
• Automated a 4-stage GitHub Actions pipeline (lint → tests → Docker build → Trivy security scan) that runs on every push and blocks merges when quality or security checks fail.
• Configured a production-style Docker Compose deployment with health checks and restart policies across 4 core services, reducing manual restarts during failure drills from several minutes to a few seconds.
• Provisioned Prometheus to scrape 15+ application and container metrics and Grafana dashboards that visualize latency, error rates, and restarts during incident simulations so issues can be diagnosed in under 5 minutes.

LabelForge – Collaborative AI Training Data Web App (React, Node.js, PostgreSQL, WebSockets)
• Created a full-stack collaborative labeling tool with React, Node.js, and PostgreSQL that supports parallel annotation of 100+ items per session for text and coding tasks.
• Integrated WebSockets and conflict-free update logic so up to 5 concurrent annotators can edit the same task in real time without overwriting each other's work.
• Built reviewer-productivity features—keyboard shortcuts, disagreement heatmaps, and export scripts—that cut the steps to prepare a training batch from about 10 manual actions to 3 automated ones.