Martin Adegbola Traore

Software Engineer · Full-stack & AI Developer · SQA

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PROFILE

Final-year Software Engineering student with 12 months' experience as an NHS software developer, now building AI-powered apps with large language models. Works across the full lifecycle — requirements, build, peer review, testing, documentation and deployment — in Agile teams.

EXPERIENCE

Software Developer — Industrial Placement

Sep 2025 – Sep 2026

The Walton Centre NHS Foundation Trust · Liverpool

- Built and maintained Electronic Patient Record modules and clinical web apps in PHP, JavaScript/jQuery and SQL Server, in an Agile team of five.
- Wrote and optimised SQL queries and stored procedures for patient-data workflows; delivered optimisations that cut developer workload by 20%.
- Partnered with QA on test scripts, functional and regression testing; used Jira sprints, Git/Bitbucket pull requests and peer review.

Student Representative — Software Engineering

Sep 2024 – May 2025

Edge Hill University · Ormskirk

Presented student feedback at programme meetings on curriculum, assessment and support.

Junior Web Developer

May 2022 – Aug 2022

SH Barcelona · Barcelona, Spain

Maintained the company website in PHP and JavaScript; resolved HelpDesk incidents.

Software Engineer Intern

May 2020 – Jul 2020

CAME Parkare · Barcelona, Spain

Helped develop and test parking-system software, incl. licence-plate recognition.

EDUCATION

BSc (Hons) Software Engineering — Placement Year

Sep 2023 – May 2027 (exp.)

Edge Hill University · Ormskirk

Final-year project on human vs AI-generated poetry.

HNC — Multiplatform Application Development

Sep 2020 – Jun 2022

Institut La Ferreria · Barcelona, Spain

VET — Microcomputer Systems and Networks

Sep 2018 – May 2020

Institut La Ferreria · Barcelona, Spain

SELECTED PROJECTS

Quizlight

Android, Python, FastAPI, Claude API, ML Kit, Fly.io · Google Play closed test

Android app that reads on-screen quiz questions with on-device OCR and suggests answers, hints, explanations and translations. Python/FastAPI server on Fly.io calls Claude, validates every reply and enforces daily limits; screen frames never leave the phone.

Final-year project — Can AI generate convincing human poetry?

Python, open LLMs, Google Colab Pro · In progress

Open LLMs (SmolLM, Qwen, Gemma, Llama) tag human poems and write AI versions under different prompts; a model then detects human vs AI.

Electronic Patient Record forms

PHP, jQuery, AJAX, SQL Server, Bootstrap · NHS

Dynamic NHS forms with conditional panels, mandatory-field logic, calculations, save controls and database-backed workflows.

GoodHands

React, Next.js, Node.js, Express, Sequelize, MySQL · Live

Full-stack web app: front end, back end and relational database, deployed online.

Bicing Barcelona

React, Next.js, APIs, responsive design · Live

Live bike-station map: search by address and check bikes and free docks.

Java applications

Java, JavaFX, OOP, JSON

Desktop apps including a vending-machine system and a football-management app.

TECHNICAL SKILLS

Languages & web	PHP 8, JavaScript, Python, Java, React, Next.js, Node.js, jQuery, AJAX, HTML5, CSS3, Bootstrap
AI & LLMs	Claude API, Open LLMs, Llama, Qwen, Gemma, SmolLM, Prompting strategies, Claude Code, ML Kit OCR, Google Colab Pro
Data & back end	SQL Server, Stored procedures, FastAPI, MySQL, PostgreSQL, Oracle · PL/SQL, MongoDB, Express.js, Sequelize, PDO
Engineering practice	Agile / Scrum, Git, Jira, Bitbucket, Code review, Regression testing, Unit testing, UI Automator, UAT support
Tools & platforms	VS Code, Android Studio, Gradle, REST APIs, Fly.io, Jupyter, DBeaver, phpMyAdmin, Power BI, Windows / Linux

CERTIFICATIONS

Microsoft Certified: Security, Compliance, and Identity Fundamentals

Oracle Cloud Infrastructure 2023 AI Certified Foundations Associate

Microsoft Office Specialist: Word Associate

Oracle Mentoring Programme

LANGUAGES & MORE

English, Yoruba, Spanish and Catalan

Full UK driving licence and access to a car