Lawrence Omolo
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Personal Profile

AI-Augmented Full-Stack Developer | AI Systems Architect | Automation Specialist

AI-augmented full-stack developer and founder-engineer specialising in AI-enabled business systems, scalable SaaS applications and workflow automation. Experienced in Python, Django, FastAPI, Flask, React, Next.js, TypeScript and PostgreSQL, with hands-on experience across REST APIs, multi-tenant systems, background processing, AI agents, RAG pipelines and cloud deployment. Combines over six years of hands-on product development with more than ten years of commercial, product and stakeholder-management experience.

Key Expertise:

- AI Systems & Workflow Automation – AI agents, orchestration, governance, RAG, MCP and OpenAI, OpenRouter and Anthropic integrations
- Scalable SaaS & Web Applications - Python, Django, FastAPI, Flask, React, Next.js and PostgreSQL
- Backend Architecture & APIs - Multi-tenant systems, REST APIs, microservices, Redis and background processing
- Business Process Automation - E-commerce, email operations, content production, marketing and lead generation

Education and IT Training

04/2024 - 07/2024 | Just IT Training Ltd, London
Digital Skills Bootcamp: Software Development
Focused on web and software development essentials: HTML, CSS, JavaScript, Python, and SQL.

09/2009 – 06/2012 | University of the West of England
BEng Aerospace Manufacturing Engineering (Second Class)
Core Modules: Advanced Mathematics, Engineering Principles, CAD, Project Management.

09/2005 – 06/2008 | Kingston College
BTEC Aerospace Engineering - Distinction, Distinction, and Merit

09/2002 – 06/2005 | Thomas More High School
GCSEs: 8 A-C grades, including Maths (A) and English (B)

IT Skills:

AI & Automation:

- **AI-Assisted Development:** GitHub Copilot, ChatGPT, Claude and AI-supported software-development workflows
- **AI APIs & System Integration:** OpenAI, Anthropic, OpenRouter, LangChain, Microsoft AutoGen and multi-provider LLM integration
- **AI Systems:** AI agent workflows, model routing, retrieval-augmented generation, Model Context Protocol (MCP), workflow orchestration, Transformer NER and OCR processing

Software Development & Architecture:

- **Full-Stack Development:** Python, JavaScript, TypeScript, Flask, Django, React, Next.js and Tailwind CSS
- **Backend & Databases:** Django REST Framework, FastAPI, PostgreSQL, MySQL, Redis, pgvector, Celery and REST APIs
- **Cloud & DevOps:** AWS, Railway, Render, Vercel, Netlify, Docker, GitHub and CI/CD pipelines
- **Scalable Applications:** Multi-tenant SaaS, microservices, authentication, background processing, webhooks and third-party API integrations

E-commerce & Digital Business Systems:

- **E-commerce Automation:** Product, supplier, catalogue, inventory and marketplace workflow systems
- **Marketing & Content Automation:** Email operations, content production, social scheduling and campaign workflows
- **Business Process Automation:** Lead generation, reporting, digital-product delivery and internal operational systems

Projects

📌 BEIA OS - AI Workforce Operating System

- **Tech Stack:** Python, Django, React, TypeScript, PostgreSQL, OpenAI, Anthropic and OpenRouter

- **Overview:** Architected a governed AI workforce platform that coordinates specialised agents, departments, tasks, tools, workflows and approvals through a central command centre.
- **Impact:** Designed the orchestration, governance and audit framework required to manage hundreds of AI agents while maintaining task ownership, controlled tool access and traceable execution.

📌 Multi-Tenant AI Email Operations Platform

- **Tech Stack:** Next.js, Django REST Framework, FastAPI, PostgreSQL, Celery, Redis, AWS SES and Docker
- **Overview:** Built a multi-tenant SaaS platform for managing contacts, templates, campaigns, AI-assisted drafts, bulk sending, unsubscribe requests and email delivery events.

- **Impact:** Delivered a production-style email operations system with tenant isolation, background processing, secure API access, delivery telemetry and automated bounce and complaint handling.

📌 ML-Assisted Recipe Ingredient Parsing API

- **Tech Stack:** Python, FastAPI, PostgreSQL, Redis, Transformer NER and OCR
- **Overview:** Developed an API that converts unstructured ingredient text and recipe images into structured data using deterministic parsing, named-entity recognition, OCR and knowledge-base enrichment.
- **Impact:** Created a reusable food-technology service with confidence scoring and asynchronous batch processing, enabling recipe applications to work with consistent, machine-readable ingredient data.

📌 Recipe Card Generator - SaaS Web Application

- **Tech Stack:** Python, Flask, React, PostgreSQL, HTML, CSS and JavaScript
- **Overview:** Developed a customer-facing application that enables users to create, edit, organise and export professional, print-ready recipe cards.
- **Impact:** Built the technical foundation for Ruoth's digital recipe-card ecosystem, including authentication, recipe management, templates, media, scaling and PDF or PNG export.

📌 Automated Etsy & Amazon FBA Systems

- **Tech Stack:** Python, Flask, Django, Next.js, PostgreSQL, AI API Integrations
- **Overview:** Built a customised full-stack automation system for Etsy and Amazon FBA businesses, optimising inventory tracking, pricing adjustments, product listing automation, and data analytics.
- **Impact:** Converted hands-on e-commerce operations into reusable tools that reduced repetitive work, improved operational visibility and supported more structured marketplace decision-making.

Employment History

L.O.J Enterprise Ltd | Founder, Managing Director & Full-Stack Developer (2019–Present)

- **Software & Product Development:** Design, build and deploy full-stack applications, SaaS platforms, APIs and automation systems using Python, Django, FastAPI, Flask, React, Next.js, TypeScript and PostgreSQL.
- **AI Systems & Automation:** Architect and build AI-agent platforms, multi-provider LLM integrations, content-production systems, email operations, e-commerce workflows and internal business tools.
- **End-to-End Delivery:** Lead product discovery, requirements, system architecture, data modelling, implementation, cloud deployment, documentation and continuous improvement.
- **Business Leadership:** Manage commercial strategy, brand development, digital operations, product ownership and stakeholder relationships across L.O.J Enterprise and its brands.

Financial Times | Account Director & Senior Account Manager (2015–2021)

- **Commercial Leadership:** Managed senior client relationships across a portfolio worth more than £4.3 million, leading strategic reviews, account planning, negotiations and long-term development.

- **Product Stakeholder:** Worked with product, technology, data and service teams to translate customer requirements into digital-product and service improvements.
- **Data-Driven Account Management:** Used customer, engagement and performance data to support retention, commercial decisions and account-growth strategies.
- **Cross-Functional Delivery:** Coordinated internal teams to deliver complex B2B services and maintain strong relationships with senior stakeholders.

Pitney Bowes | Senior New Business Client Manager (2014 – 2015)

- **Enterprise Business Development:** Developed new-business opportunities for communication, software and technology-enabled business solutions.
- **Consultative Sales:** Assessed customer requirements, presented tailored solutions and managed proposals, negotiations and account onboarding.
- **Pipeline Management:** Managed sales forecasting, account prioritisation and stakeholder relationships across the full sales cycle.

Early Career (2012 – 2014) – Summary (SEC Recruitment, Modis International)

- **Technical Recruitment:** Recruited for software, technology and engineering roles, developing an understanding of technical skills and software-delivery lifecycles.
- **Client & Candidate Management:** Managed client requirements, candidate sourcing, interview processes, offers and placements.
- **Commercial Delivery:** Built relationships with hiring managers and candidates while managing structured recruitment pipelines and account activity.

Interests and Achievements

- **Computing:** Building web applications, AI systems, SaaS products and automation platforms using modern technologies.
- **Music:** Bass guitarist with a strong interest in performance and music technology.
- **Interests:** Coding, artificial intelligence, entrepreneurship, music, family activities, cycling, walking and Formula One.

Additional Information

A British citizen based between the United Kingdom and Sweden. Open to remote, freelance, contract and suitable permanent opportunities.