

Alex Lewis

AI Architect | PhD Astrophysics | LLM Systems · High-performance Backend
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PROFESSIONAL EXPERIENCE

AI Solutions Architect (Contract) | Gresham House April 2026 – Present | London, UK

- Enterprise AI Architecture: Python/TypeScript foundation linking Claude Agents to Salesforce & Snowflake via FastMCP.
- DevOps: Azure Pipelines CI/CD, monorepo, Dockerized AI services.
- Governance: GitFlow, automated lint/test suites for long-term ownership.

Senior Software Engineer (Contract) | Digital Speed Oct 2025 – Mar 2026

- Built Speedy agentic loop (TypeScript/Next.js, MCP, pgvector).
- Created AI Skills framework for Claude/Cursor agents.
- Engineered Java CI/CD libraries for ISO 20022 validation.

AI Solutions Architect (Contract) | Downing LLP Aug 2025 – Nov 2025

- LangGraph multi-agent orchestration on Azure.
- State via PostgreSQL + Managed Identity; LangSmith observability.
- Production CI/CD pipelines in Azure DevOps.

Technical Founder | W4lkies Ltd Feb 2025 – Jul 2025

- Full-stack ops platform (Next.js, FastAPI, PostgreSQL, Docker).

Lead AI Architect | Hyperhumans OÜ Mar 2024 – Jan 2025

- Lead Intel API with multi-stage enrichment pipelines.
- Designed monetized API with RBAC + credit metering.

Head of Optimization | Itim Ltd Mar 2019 – Feb 2024

- Forecasting systems: 1M+ daily SKU predictions.
- Led distributed engineering team; mentoring & standards.

EDUCATION

PhD Astrophysics | University of Edinburgh 2014 – 2018

- First-author publication in The Astrophysical Journal.
- ERC-funded research; Monte Carlo simulations & data workflows.
- Observing and analysing how faint smudges in the universe enhance our understanding of the cosmos.

TECHNICAL SKILLS

- AI & Orchestration: LangGraph, RAG, MCP, FastMCP, LangSmith.
- Languages: Python, TypeScript, Java, SQL.
- Backend: PostgreSQL, APIs, Redis, Docker.
- Cloud: Azure, GCP, CI/CD.
- Frontend: Next.js, React, Tailwind.