Caleb Laing

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Education

Highfields School   *Wolverhampton, UK*   Sep 2023 – Jul 2026
A Levels: **Computer Science (B)**, **Business (C)** *(achieved 2025)*; **Mathematics (A)** *(predicted 2026)*

Wolverhampton Grammar School   *Wolverhampton, UK*   Sep 2018 – Jul 2023
10 IGCSEs incl. **Mathematics 8**, **English Language 7**, **English Literature 6**

Experience

Panoraxis   *Wolverhampton, UK*   Jan 2025 – Present
Co-Founder & Lead Developer

- Co-founded SaaS automation agency; negotiated **3 pilot SME clients** in Q1 via chatbot solutions.
- Designed product architecture and deployment; aligned delivery with client timelines and scope.
- Built AI FAQ platform (FastAPI, FAISS, Supabase) delivering **40% faster query resolution** vs manual responses.
- Implemented GDPR-aligned data handling with logging and PII redaction across deployments.

IBM   *Leicester, UK*   Nov 2024
Work Experience Placement

- Engaged with professionals across project management, data engineering, and CSOC analysis.
- Gained insight into daily (BAU) and ad-hoc activities, and the essentials of project management including time and risk management.
- Explored tools such as JIRA, Trello, and Smartsheet to track workflows and improve team coordination.
- Learned the importance of clear communication and risk mitigation within security operations.

BT   *Manchester, UK*   Jul 2024
Work Experience Placement

- Gained exposure to cybersecurity operations including threat hunting, incident response, and the use of Microsoft Defender and Sentinel.
- Observed a live DDoS mitigation and documented traffic filtering techniques.
- Learned threat-hunting practices such as automation, scheduled detection, and collaborative incident management.
- Explored the use of KQL and data analysis in monitoring systems, handling large volumes of security data.

Creative Ideaz   *Birmingham, UK*   Apr 2024
Internship

- Collaborated with developers and SEOs on digital marketing, AI, and data interpretation projects.
- Analysed Google Analytics metrics (CTR, impressions, bounce rate) and recommended SEO changes to improve performance.
- Produced an AI-assisted promotional video for a new product (MiQuest), streamlining content production.
- Researched and tested AI-based image-editing workflows, identifying **3 viable automation tools** for potential integration.

Freelance Programmer   *Remote*   2023 – Present

- Delivered automation scripts, websites, scrapers, and SaaS prototypes for small businesses.
- Shipped documented Python codebases with deployment-ready workflows and version control.

Projects

Panoraxis AI Chatbot Platform — FastAPI, SentenceTransformers, FAISS, PostgreSQL   2025

- Retrieval-augmented FAQ system using SentenceTransformers + FAISS.
- Secure FastAPI service with input sanitisation, headers, validation, caching.
- Unknown-question logging (Supabase/PostgreSQL + CSV fallback) with LLaMA fallback path.
- Branded web widget for client sites; env-based configuration.

Tax Manager — PySide6, Pandas, Matplotlib, SQLite   2025

- Desktop planner for UK salary modelling, scenario comparison, and self-assessment prep.
- Features: historical graphs, autosave, dashboards, and PDF/CSV export.

NEA Stock Market Simulator — Python, Flask, SQLite, SQLAlchemy, yfinance   Sep 2024 – Jun 2025

- Developed a full-stack trading simulator with secure authentication (bcrypt) and session management; awarded **66/70** in A Level CS NEA.
- Built pricing engine with realistic volatility (normal distribution + spikes) and live auto-updates every ~5s.
- Integrated yfinance data with JSON endpoints and charting; implemented trade execution and portfolio tracking with validation.
- Authored 30,000-word technical report evaluating trading logic and system performance.

Skills

Languages: Python, JavaScript, SQL, HTML/CSS, KQL, LaTeX

Frameworks/Libraries: FastAPI, Flask, PySide6, Pandas, NumPy, Matplotlib, PyTorch, scikit-learn

Cloud: AWS, Azure, GCP *(familiarity via self-study)*

Tools: Git/GitHub, Docker, Linux, PostgreSQL, VS Code, Excel, n8n, Jupyter Notebooks, Ollama