

# Caleb Laing

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## Education

### Highfields School

A Levels: Computer Science (B), Business (C), Mathematics (resit 2026, predicted A - Exam Centre TBD) Wolverhampton, UK

### Wolverhampton Grammar School

10 IGCSEs including Mathematics (8), English Language (7), English Literature (6)

Sep 2023 – Jul 2025

Sep 2018 – Jul 2023

Wolverhampton, UK

## Experience

### Panoraxis

Co-Founder & Lead Developer

Jan 2025 – Sep 2025

Wolverhampton, UK

- Built automation-focused SaaS; negotiated with **three SME pilot clients**.
- Developed production systems with **FastAPI**, **FAISS**, **Supabase** and GDPR-aligned logging/PII-safe handling.
- Delivered demos, pricing structures and deployment architecture to non-technical stakeholders, including pitching to an **international SEO agency**.

### IBM

Work Experience Placement

Nov 2024

Leicester, UK

- Shadowed individuals across **CSOC analysis**, **data engineering** and **project management**.
- Gained insight into daily BAU and ad-hoc activities and essentials of project management (time & risk management).
- Used **JIRA**, **Smartsheet** and **Trello** to understand Agile workflows.

### BT

Work Experience Placement

Jul 2024

Manchester, UK

- Observed real-time DDoS mitigation using Microsoft Defender/Sentinel and rule-based filtering.
- Shadowed threat hunters utilising **KQL** and automation pipelines across ~ 4,300 incidents/week.
- Gained exposure to sandbox detection workflows and CySOC operational coordination (incident response).

### Creative Ideaz

Intern

Apr 2024

Birmingham, UK

- Collaborated with developers, SEOs and designers across AI-supported digital marketing workflows.
- Analysed Google Analytics metrics (CTR, impressions, bounce rate) to guide SEO adjustments.
- Produced AI-assisted promotional content for MiQuest; evaluated feasibility of AI-based editing pipeline integration.

## Projects

### Systematic Trading & Market Analytics

Numpy, Pandas

Oct 2025

- Built systematic analytics framework for on-chain metrics, volume flows and holder distributions.
- Implemented filter-based signal generation with risk-controlled position sizing.
- Achieved ~ 30% average monthly ROI over the first two months through systematic testing.

### Panoraxis AI Chatbot Platform

FastAPI, SentenceTransformers, FAISS, PostgreSQL

Feb 2025 – April 2025

- Built retrieval-augmented FAQ engine using transformer embeddings with FAISS vector search.
- Implemented validation, caching and PII redaction; added unknown-query logging (Supabase) with LLaMA fallback.

### NEA Stock Market Simulator

Flask, HTML/CSS, SQLite, yfinance

Sep 2024 – Jun 2025

- Developed full-stack simulator with session auth, volatility modelling and live charting.
- Integrated yfinance, transaction validation and portfolio tracking; awarded **66/70**.

## Skills

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

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

**Cloud:** AWS and Azure (*in progress via self-study*)

**Technical Tools:** Git/GitHub, Docker, Linux, PostgreSQL, VS Code, Vercel, n8n, Jupyter Notebooks, Ollama, GitHub Actions

**Core Skills:** Data Analysis & Interpretation, Version Control, Critical Thinking, Problem Solving, Communication, Adaptability