

JORDAN MARK WISEMAN

AI Engineer at Abcam | Montreal, CA | Canadian Work Permit Holder

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EXPERIENCE

AI Engineer | MLOps & LLM Applications

Abcam (Danaher)

Nov 2024 - Present Cambridge, UK

- Designed and deployed production AI systems using LLMs, LangChain RAG pipelines, and predictive models, now adopted by five companies across Danaher.
- Built a product suitability engine combining semantic analysis with random forest modelling, generating multi-million-dollar sales leads.
- Implemented a secure asynchronous OpenAI/Azure integration utility, improving performance and safeguarding sensitive data.
- Automated cloud infrastructure deployment with GitLab CI/CD and Terraform, optimising resource usage and operational costs.
- Delivered a natural language query system over funding data using embeddings and FAISS vector search, enabling advanced discovery capabilities.
- Directed design sessions with vendors and clients to accelerate feature delivery and reduce time-to-release.
- Led a team of three developers to deliver two MVPs on schedule, strengthening leadership and cross-functional collaboration.
- Ensured all AI applications were compliant with AI governance frameworks and regulatory standards.

Data Engineer

Abcam

April 2024 - Nov 2024 Cambridge, UK

- Led the development of message streaming pipelines, enabling real-time retrieval of product data from PIMCore, enabling live data availability for analysts.
- Defined and developed internal data platform infrastructure, focusing on orchestration, secure AWS database connectivity, and platform telemetry.
- Identified and eliminated duplication in product categorisation processes, delivering monthly savings of approximately £13k in staff time.
- Enhanced AI Platform tooling by developing a reusable database connectivity class and implementing a secure AWS API Gateway solution.

Data Analyst

G-Research

Sept 2021 - May 2023 London, UK

- Led analytics for new trading capability integration, turning terabytes of trade data into live visualisations, used in securing a key external partnership.
- Implemented an alerting system for hardware failures in a global data centre network, enabling early identification of faulty servers on its first day in production.

Data Analyst | Intern

G-Research

June 2020 - Sept 2020 Remote, UK

- Developed a Python Bokeh error reporting tool that unified data from multiple applications, credited with driving a decline in team errors.

SKILLS

- AI/ML Frameworks & Tools:** PyTorch, OpenAI LLMs (Azure-hosted), HuggingFace, Langchain, scikit-learn, MLflow, Pydantic, FAISS.
- Languages:** Python (Advanced), SQL (Advanced).
- Cloud & MLOps:** AWS (Sagemaker, ECS, Fargate, EC2, Event Bridge, Redshift, S3), GitHub/GitLab (CI/CD), Docker, Terraform, FastAPI, Humio, Prometheus, Grafana.
- Databases:** Snowflake, MSSQL, Oracle, DynamoDB (NoSQL).
- Analytics & Visualisation:** Seaborn, Tableau.
- Data Processing & Pipelines:** Kafka, Elasticsearch, Hive, Airflow, dbt, Oracle Data Integrator, Alteryx, SQLAlchemy.
- Other Tools:** Confluence, Agile Methods & Jira.

EDUCATION

University of Durham

MPhys Masters of Physics (2:1)

2017 - 2021 Durham, UK

Thomas Mills Sixth Form

Physics, Maths, Chemistry (A*A*A)

2015 - 2017 Suffolk, UK

PROJECTS

Thermal Response Of Quantum Tunneling Composites

2020 - 2021 Durham, UK

- Collaborated with a subsidiary of Samsung to investigate the thermal response of materials used in touch screen phones.
- Developed software for real-time control of a temperature controlled chamber using an Arduino board.

Detecting Skyrmions Using Implanted Muons

2020 - 2021 Durham, UK

- Developed a Python package for modelling Skyrmion clusters within chiral magnets.
- Proven as accurate in determining muon stopping sites in experimental comparisons.

LANGUAGES

- English** (Native speaker)
- French** (Beginner)