

Ruairi O'Hare

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PROFESSIONAL EXPERIENCE

Lloyds Banking Group — Advanced Analytics Analyst

Apr 2026 - present

- Designing and maintaining data pipelines and cloud infrastructure across GCP and the Microsoft BI Stack, including leading the migration between the two platforms with pipeline architecture design and scalable data model implementation.
- Applying AI and machine learning techniques to large financial datasets to surface insights and enable data-driven reporting and decision-making across investments, insurance and pensions.
- *Tech:* Python, SQL, Google Cloud Platform, Data Factory, BigQuery, PowerBi, Dataflow, Composer

University of Edinburgh — Digital Preservation Developer

Nov 2022 - Sep 2025

- Built a new digital preservation system from scratch, now used daily by all archivists across the university, significantly automating their workflow and saving hours of manual work daily.
- Developed a data pipeline for ingesting large datasets into multiple long-term storage and digital asset management systems; integrating open-source tools, REST APIs, virtual machine management, web interfaces for monitoring ingestion flows and long-term infrastructure planning.
- Automated data integrity checks with scheduled runs and email summaries, removing a major manual workload for the archivists and ensuring continuous integrity of archived collections.
- *Tech:* Python, Docker, Linux/VMs, REST/JSON APIs, SQL, Drupal

Adobe — Software Development Engineer

Apr 2022 - Oct 2022

- Built internal code analysis tools to generate quality metrics to evaluate pull requests, applying AI-like insights for project managers to track progress, reduce risk and speed up delivery timelines.
- Integrated these metrics into CI/CD pipelines with Jenkins to automate reporting and enhance deployment speed and reliability using Groovy and Javascript.
- Collaborated with engineers across teams to embed new analysis tools into existing workflows and improve build stability.
- *Tech:* Java, Groovy, Jenkins, Unit Testing, Kubernetes, CI/CD, JavaScript

Visa Inc. — Graduate Java Developer

Sep 2021 - Mar 2022

- Migrated a large legacy platform to a new Java microservice-based architecture for a new Visa digital ticketing product, rewriting and testing core components in Spring Boot to improve maintainability and performance.
- *Tech:* Java, Spring Boot, REST APIs, Docker, Maven

TECHNICAL SKILLS

Languages	Java, Python, C, C++, SQL	Backend	Spring Boot, REST APIs, microservices, secure coding, Drupal
DevOps	Docker, Jenkins, CI/CD, Linux, virtual machine deployments, Groovy	Databases	MySQL, Postgres, PowerBI, relational databases, schema design
Testing	JUnit, pytest, mocking, code reviews	Web	JavaScript, HTML/CSS, GCP, AWS (CloudWatch, S3, Lightsail)
Frameworks	TensorFlow, Keras, Pandas	Tools	Git, Jira, Confluence, Slack, Overleaf

EDUCATION

The University of Edinburgh

2017-2021

*BSc (Hons) Computer Science, **First-Class Honours***

- **Dissertation:** Developed a neural network model to predict optimal robot shapes with AI for minimally invasive lung surgery.
- Created a complete SQL interpreter in Java, an autonomous parking robot, and a C-to-MIPS compiler.
- Awarded the **Edinburgh Award** for outstanding on-campus contribution.