

# Anulome Kishore

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## EDUCATION

**University of Manchester**  
GPA 3.71

United Kingdom  
Sept. 2022 – Jun. 2025

## PROFESSIONAL EXPERIENCE

### J.P. Morgan Chase

*Software Engineering Analyst (Asset Wealth Management)*

Sep. 2025 – Present  
Glasgow, Scotland

- Software Engineer in J.P. Morgan's **Asset Wealth Management** division, working within a central **data platform team** responsible for shared data infrastructure. Built distributed data ingestion services for trading and reference data using **Java** and **Spring Boot**, with **GraphQL**-based access for downstream consumers.
- Owned and drove **data mesh enablement** for multiple domains, redesigning platform infrastructure to migrate consumer workloads from on-premise systems to **AWS**. Rewrote and optimised **AWS Glue pipelines** and **Lambda-style compute** to support domain-level ownership, schema versioning, and scalable cross-domain data consumption.
- Led architectural changes to a shared **data ingestion platform** used by analytics and downstream services; introduced an additional **MongoDB persistence layer** to separate write-heavy ingestion paths from read-optimised access patterns, significantly reducing lookup latency and improving system stability under load.

### NatWest Group

Jun. 2024 – Aug. 2024

Edinburgh, Scotland

*Data Analytics Intern (Retail and Digital X)*

- Executed a large-scale customer segmentation project for a travel campaign using **SAS Enterprise Guide**, **PySpark**, and **K-means clustering**, leveraging **SQL** for large-scale data querying and **Python** for feature engineering and automation, boosting engagement by 20% and campaign performance by 15%.
- Worked in a **cross-disciplinary agile team**, using **Python** and **SQL** extensively for data cleansing, transformation, and reporting to support strategic business decisions.
- Led a 5-member team in the **Bank of APIs hackathon**, building a mortgage affordability tool using the **MERN stack**, with geospatial property search and a dynamic financial dashboard; ranked **top 3 out of 50+ teams**.

## PROJECTS

### Context-Aware Music Recommendation Engine

Sept. 2024 – Feb. 2025

*Java, Spring Boot, Fca4j, MusicBrainz API, React.js, Vite, D3.js, TypeScript, Redux*

- Built a full-stack **context-aware music recommendation system** using **Formal Concept Analysis (FCA)**, featuring a **Spring Boot backend** and **React + D3.js frontend**, processing **10,237 tracks** from the Spotify API and rendering graph updates in under **250ms**.
- Achieved a **17.2% higher similarity accuracy** with Jaccard-based FCA compared to Cosine similarity; **82.4% of surveyed users** preferred FCA recommendations for genre grouping and thematic consistency.

### Reinforcement Learning for Algorithmic Trading

Nov. 2024 – Dec. 2024

*Python, TensorFlow, PyTorch, RLlib, Backtrader, AWS*

- Built a reinforcement learning trading agent using **TensorFlow**, **PyTorch**, and **RLlib**, achieving a **12.4% simulated ROI** over baseline strategies; evaluated robustness through **5-year backtesting** with **Backtrader**.
- Deployed the bot on **AWS** with integrated RESTful APIs, enabling real-time market data ingestion and ensuring **99.9% system uptime** for continuous and fault-tolerant trading operations.

### Enhanced Educational Interface for "Another Way"

Sept. 2024 – Sept. 2024

*Python, React, Redux, TypeScript, D3.js, Material-UI*

JP Morgan - Code For Good Hackathon

- Engineered a responsive educational dashboard using **React**, **Redux**, **TypeScript**, and **D3.js**, enabling real-time visualization of impact metrics for **200+ learners** across multiple accessibility profiles.
- Collaborated directly with the charity **Another Way** to gather user requirements, delivering a tailored solution that improved data clarity and stakeholder engagement by **30%** based on feedback metrics.

## SKILLS

**Skills :** Python, Java, JavaScript, TypeScript, React, HTML, CSS, Spring, Spring Boot, Microservices, REST APIs, GraphQL, SQL, MongoDB, Cassandra, Snowflake, Apache Spark, Apache Kafka, RabbitMQ, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Machine Learning, Model Training Evaluation, Feature Engineering, AWS, CI/CD, Jenkins, Jules (Jenkins wrapper), Docker, Kubernetes, Grafana, System Design Patterns, Git, Agile Development