

Daniel Evans

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Data engineer with 3+ years' experience building and maintaining enterprise-scale data pipelines, dashboards, and automation tools at Bank of America. Skilled in Python ETL, SQL, DBT, AWS, and CI/CD DevOps practices, with experience turning business requirements into practical, scalable data solutions.

Key Skills & Technologies

Languages:	Python, SQL, HTML, JavaScript/TypeScript
Frameworks & Libraries:	Django, FastAPI, Pandas, Pydantic, React, TailwindCSS
Data Engineering & ETL:	Kafka, AutoSys, ETL, DBT core, Airflow
Databases & Storage:	MS SQL Server, PostgreSQL, AWS S3
Cloud & Infrastructure:	AWS (ECS Fargate/EC2, Terraform, S3, Glue, Athena), Linux Administration, Apache httpd, Prometheus, Grafana
Visualisation & Analytics:	Tableau, Custom Dashboards (React/HTML)
CI/CD:	Git, Bitbucket, Jira, Ansible, GitHub Actions

Professional Experience

Bank of America – Data Engineer

Jul 2022 – Present

- **Modernised data pipelines** – Migrated numerous SSIS/SQL workflows to Python/Pandas with AutoSys scheduling and Kafka logging, transforming multi-stage legacy processes into modular, maintainable scripts and significantly reducing operational overhead.
- **Built an internal ETL framework** – Designed Python modules to standardise our ETL process with validation at all stages, enabling new pipelines to be developed rapidly and consistently.
- **Database stewardship** – Administered and optimised 200+ SQL views and stored procedures using DBT core across MS SQL Server and PostgreSQL; led data migrations between platforms to improve performance and reliability.
- **Advanced data visualisation** – Designed and maintained 20+ Tableau dashboards for enterprise vulnerability tracking; applied UI/UX best practices to improve stakeholder engagement.
- **Full-stack tool development** – Delivered a Django-based internal application with a custom JavaScript/Tailwind front-end, using Kafka as a message queue for emails, downloads and monitoring. Deployed on the bank's private cloud with Apache HTTP Server, including a server-maintenance scheduling tool and custom pipeline monitoring.
- **End-to-end delivery** – Managed full project lifecycle from planning and development to testing and deployment using Git, Bitbucket and Jira, CI/CD pipelines, working directly with stakeholders to capture requirements, develop and deploy solutions.

Tesco - Customer Assistant and Shift Leader

Apr 2020 – Jun 2022

Worked part-time while studying full-time. Trained and promoted to shift leader to cover schedules, demonstrating reliability, adaptability and a proactive approach to learning. Developed leadership and communication skills while running the store as shift leader.

Technical Projects

Option Trade Analysis Tool – Designed and built a high-performance stock market screening platform featuring a full end-to-end real-time data pipeline, analytics dashboard, and cloud-native deployment.

- **Real-time data ingestion:** Architected and implemented a Kafka-based streaming pipeline ingesting the full flow of U.S. stock-option trades in real time, transforming and persisting data into an S3-backed data lake for scalable storage and analytics.
- **API and frontend delivery:** Developed a robust REST API with FastAPI to expose processed data to client applications; built a responsive, real-time dashboard in Next.js/React for visualisation and analytics.
- **Cloud deployment & observability:** Containerised the entire stack and deployed to AWS ECS with Fargate using Terraform for infrastructure-as-code. Implemented comprehensive monitoring and alerting using Prometheus and Grafana.
- **Technology depth:** Demonstrated expertise in real-time data pipelines, Python, JavaScript/TypeScript, React, and cloud infrastructure, with hands-on orchestration and automation across the full stack.
- Additional data pipelines orchestrated with Airflow to enable computations of historical averages using past data. Stored in S3, using a bronze, silver, gold layer approach.

Home Network VMs – Built a personal virtual environment on Proxmox hosting multiple VMs (PostgreSQL database, Plex server, custom DNS), configuring and managing Linux servers and network settings to deepen expertise in virtualisation, system administration and infrastructure setup.

Other Projects – I have worked on several other projects at in my own time including a smart home device scheduling automation tool and my personal website. Each of these projects, I make use of Claude AI models as well as CI/CD pipelines in GitHub.

Education

University of Leicester - MPhys Physics with Space Science

Sep 2018 – Jun 2022

Grade: First class

Key modules: Statistical Physics, Statistical Data Inference, Computational Physics, Core Physics, Experimental Physics. Optional courses and end-of-year projects focused heavily on computational physics, including applying machine-learning algorithms to physical data sets.

Selected year-end projects

- **Predicting star classification using Gaussian Processes** – Modelled time-series data with Python and R, applying Gaussian processes and Fourier transforms to develop predictive scientific models on the classification of stars.
- **Dynamics of Circumbinary Planets** – Simulated three-body orbital dynamics on a supercomputer using C and batch processing to identify stable orbits.

King Edward VI Sixth Form College

Sep 2016 – Aug 2018

3 A-Levels (A* A A) in Maths, Physics, and Computer Science