Daniel Evans

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Work

Bank of America

July 2022 – Present | Data engineer

I began my career at Bank of America as a data engineer, starting on the graduate scheme. While largely focussed on creating and maintaining reports for enterprise-wide server vulnerability tracking, the scope of my work has also expanded to designing and implementing a number of automated processes. All of my work is planned, developed, tested and deployed following DevOps practices which has given me excellent proficiency in a wide range of tools and processes.

Data pipelines using Python
Python | SQL | Pandas | Data ETL

Created from the ground up, a collection of data pipelines to pull data from various sources then load and manipulate it ready for consumption in dashboards. This included custom logging and syncing tools linked to our front-end to keep track of the data loading process and to ensure that the data is correctly synchronised across our databases.

Database maintenance
SQL | MS SQL Server | PostgreSQL

Took ownership of various SQL views and stored procedures in our database used to manipulate data before being used in the dashboards. Additionally, drove the migration of data from one database to another as part of upgrading the server infrastructure which required a lot of planning to avoid any downtime to our dashboards.

Visualisations with Tableau
Tableau | Data Visualisation

Created and maintained a large number of dashboards using Tableau, reporting on enterprise-wide server vulnerabilities. I have learnt the ins and outs of Tableau and have good experience with making impactful dashboards which convey the data as a story.

Team Website
Python | Django | HTML | JavaScript | TailwindCSS | Linux | Full-stack

I am the lead developer of our team's automation website which is used to automate a number of previously manual processes. This is built in Django, a Python full stack web framework, utilising its backend and frontend features as well as using custom JavaScript and styling to improve reactivity and design. As well as the development side, I have also gained valuable experience with deploying software in a professional environment including a thorough understanding of Linux operating systems. As a lead developer, I also used this project to learn the best practices when it comes to planning and assigning tasks within a team in a professional software development setting.

Tesco

April 2020 – June 2022 | Customer assistant and shift leader

Part-time role during my time at university. I was allowed to train up to be a shift leader for when the schedules required it which gave me the opportunity to practice leadership and demonstrates how I always want to keep learning no matter the position I am in.

Education

University of Leicester

MPhys Physics with Space Science

1st class Master of Physics degree. Key modules and topics covered: Statistical Physics, Statistical Data Inference, Computational Physics, Core Physics, Experimental Physics. My option courses had a large focus on computational Physics, in particular looking at how we can use machine learning algorithms within Physics.

Main Projects:

Data inference using Gaussian Processes

R | Python | Modelling | Machine Learning

Modelling time-series data with a form of machine learning. Developed with a mix of Python and R for computation and then visualisation. The end goal was to try and make predictive scientific models for star classification utilising Gaussian processes and Fourier Transforms.

Dynamics of Circumbinary planets

C | Batch Processing | Linux | Modelling

Modelling the orbits of three gravitationally bound bodies using batch processing on a super-computer to find stable orbits. Developed entirely in C using batch processing on the super-computer to find optimal model parameters resulting in stable orbits.

King Edward VI Sixth Form College

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

Side Projects

Home “cloud” network

I have a number of virtual machines at home running various applications on the local network which are used by some of my other projects. Each virtual machine was created using Proxmox running on one of the main computers. Applications I have running include a PostgreSQL database, Plex media server, and my own DNS server. This was mostly all just for learning and to further my knowledge of Linux operating systems and virtualisation.

Stock Market Screening website.

To enhance my JavaScript/TypeScript and React skills as well as understand developing APIs, I am developing a stock market screening website similar to what already exists. I have a local database which is running a large number of jobs daily to pull in current market data and then a REST API built with FastAPI to allow a link to the frontend. This is still in the early stages but is a great source of expanding knowledge in my sector.

Personal Website

Created and deployed my personal website which can be found at danieljevans.com. This is a simple static website built using NextJS with TypeScript and TailwindCSS.

Competent technologies and softwares

- Python
- JavaScript, TypeScript
- C
- SQL
- Django
- Pandas
- CSS and TailwindCSS
- Linux
- Tableau