PATRICK FITZSIMONS

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OBJECTIVE

Aspiring software developer with a background in data science, AI and cloud technologies. Passionate about applying technical expertise and problem solving abilities to build innovative, efficient, and scalable solutions across AI, finance, and wider tech industries.

EDUCATION

BSc Data Science and Computing: Birkbeck, University of London.   Expected 2026

Certifications: • Introduction to Neural Networks and PyTorch [IBM] • Generative AI & LLMs: Architecture & Data Preparation [IBM] • Databases & SQL for Data Science [IBM]

EXPERIENCE

Software Developer Intern   May 2025 – June 2025
Legal Pythia   *Hybrid, London*
Tech: Python, Selenium, BeautifulSoup, Requests, Docker, MinIO, Google Cloud Functions, GitHub Actions

- Designed and developed ETL pipelines in Python to extract data from diverse sources, process and clean it and store the results in Google cloud storage buckets. Tested locally with MinIO and containerised with Docker.
- Deployed to Google Cloud Functions for cost efficient, serverless execution. Implemented CI/CD Workflows with GitHub actions to automate builds, testing, and deployment updates.

Sales Associate   January 2022 - April 2023
Vinverum   *Bromley, London*

- Developed client relationships, successfully negotiated new contracts, built company revenue by consistently exceeding sales targets.

Various Sales & Recruitment Roles   January 2016 - 2023
BWC, WestworkGroup, Nigel Frank International, Vinverum   *London*

- Specialized in recruiting AWS professionals for DevOps, Enterprise Architect, and VP roles, gaining insights into cloud computing and IT systems.
- Developed client relationships, successfully negotiated new contracts, built company revenue by consistently exceeding sales targets.

PROJECTS

Web Scraper Automation Tools. Python-based scrapers using BeautifulSoup and Selenium to extract data from e-commerce platforms. Saved over 100+ hours of manual effort and improved data reliability for analysis.

League of Legends Match Predictor. An ML model using PyTorch and scikit-learn to predict match outcomes based on in-game stats. Applied data pre-processing, feature scaling, and model evaluation techniques to optimise accuracy. Integrated classification metrics such as ROC curves and confusion matrices for performance analysis.

Interactive AI chat tool. A Python-based chat app with a Flask backend integrated w/ OpenAI GPT-4 for conversational AI. Frontend using HTML, JavaScript, and Bootstrap. Deployed on Heroku, enabling real-time, context-aware interactions. Showcased skills in API integration, web development, and cloud deployment.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS, R (Tidyverse)
Frameworks: Flask, FastAPI, Express, Node.js, PyTorch, Tailwind.
Dev Tools/ Cloud: Git, GitHub, Docker, GCP (GCF, GCS), MinIO, Heroku, MongoDB, Postman, CI/CD
Libraries: Pandas, NumPy, scikit-learn, Matplotlib, SciPy.