

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

- Developed ETL pipelines with Python scrapers (Selenium, BeautifulSoup, Requests), containerised with Docker and tested locally with MinIO.
- Automated deployment workflows by deploying scrapers to GCF with outputs stored in GCS, and integrated CI/CD pipelines using GitHub Actions.

Bar Supervisor

March 2023 - Present

The Surprise

Chelsea, London

- Managed a team during busy shifts, ensuring efficient operations and exceptional customer service.
- Developed strong leadership, teamwork, and time management skills in a fast-paced environment.

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 and maintained client relationships, successfully negotiating new contracts and building 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

Frameworks: Flask, FastAPI, PyTorch, Tailwind, Google Cloud Functions

Developer Tools: Git, GitHub, Docker, GCP (GCF, GCS), MinIO Heroku, MongoDB, JetBrains, VS Code, CI/CD

Libraries: Pandas, NumPy, scikit-learn, Matplotlib, SciPy, cuDF, Selenium, BeautifulSoup, Requests