

PATRICK FITZSIMONS

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OBJECTIVE

Aspiring software developer with a background in data science, AI and cloud technologies. Passionate about building reliable, scalable systems across AI, finance, and data-driven applications.

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

Backend Developer November 2025 – Present
Vilverum *Hybrid, London*

Tech: Node.js, Express, MongoDB, Backblaze B2, React, Tailwind, JWT, Heroku

- Built a full-stack analytics application from the ground up, designing backend APIs and a React frontend.
- Implemented authentication, validation, and secure data storage using MongoDB and Backblaze B2; deployed and maintained the application on Heroku to support data-driven dashboards.

Backend Developer November 2025 – Present
OoNt *Hybrid, London*

Tech: NestJS, TypeScript, Firestore, Stripe API, OpenAPI

- Developed and maintained scalable backend API endpoints supporting vendor, order, and payment workflows, including order capture, cancellation, and refund logic with Stripe integration.
- Collaborated with frontend and product teams in Agile sprints, focusing on reliability, performance, and clean architecture.

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.

PROJECTS

Vendor & Transaction API. Designed backend APIs for vendor and transaction workflows, focusing on clean architecture and reliable data handling.

League of Legends Match Predictor. Built an ML pipeline using PyTorch and scikit-learn to predict match outcomes from in-game statistics, applying feature engineering and model evaluation.

Interactive AI Chat Tool. Developed a Flask-based chat application integrated with OpenAI GPT-4 and deployed on Heroku, enabling real-time conversational AI.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS, R (Tidyverse)

Frameworks: Flask, FastAPI, Express, NestJS, React, PyTorch, Tailwind.

Dev Tools/ Cloud: Git, GitHub, Docker, GCP (GCF, GCS), MinIO, Heroku, Firebase, Backblaze, MongoDB, Postman, CI/CD

Libraries: Pandas, NumPy, scikit-learn, Matplotlib, SciPy.