

PATRICK FITZSIMONS

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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

Founder & Full-Stack Engineer 2026 – Present
In Development
Stealth Marketplace Platform

- Building a full stack marketplace w/ Next.js, TypeScript, Supabase (PostgreSQL), and custom relational schema.
- Implemented secure authentication and authorisation (JWT, RBAC, rate limiting, password reset) and core marketplace workflows.
- Developed search, pagination, reviews, wishlist, and cart features while optimising performance via SSR/SSG, parallel fetching, memoization, and query tuning.

Backend Developer November 2025 – Present
Hybrid, London
Vinverum

Tech: Node.js, Express, PostgreSQL, React, TypeScript, Backblaze B2, Tailwind CSS, JWT, Heroku

- Architected and shipped a client facing full stack wine portfolio analytics platform end to end.
- Complete database migration from WordPress to PostgreSQL, writing custom scripts to extract, clean and transform legacy data, redesigning the schema including secure password reset flow.

Backend Developer November 2025 – February 2026
Hybrid, London
OoNt

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
Hybrid, London
Legal Pythia

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

- **Aerial Object Detection System** *In Progress*
Building a radar simulation and object detection framework using C++ and Python, modeling kinematics and signal behaviour, applying statistical feature engineering and supervised learning techniques for probabilistic target classification.
- **Vendor & Transaction API.** Designed backend APIs for vendor and transaction workflows, focusing on clean architecture and reliable data handling.
- **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, TypeScript, JavaScript, Java, C++, SQL, R

Frameworks: Flask, FastAPI, Express, NestJS, React

ML / Data: PyTorch, scikit-learn, Pandas, NumPy, SciPy, Matplotlib

Cloud & DevOps: Docker, GCP (Cloud Functions, Cloud Storage), Firebase, Heroku, CI/CD

Tools: Git, GitHub, PostgreSQL, Postman, MinIO, MongoDB, Backblaze