

Ashkan Sheikhansari

Backend Software Engineer · Python · ML Systems · FastAPI

London, UK · Graduate Visa · Valid until Jan 2027 · Immediately Available

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PROFESSIONAL SUMMARY

Backend Software Engineer with 4+ years of hands-on experience building Python APIs, ML systems, and cloud infrastructure end to end. MSc in Artificial Intelligence, Brunel University London. Currently contributing to AI model training at Anthropic through Alignerr, designing and evaluating real-world software engineering tasks for Claude Code. Previously at InnoTech, shipped a production FastAPI fraud detection API processing 300,000+ daily transactions at 92% recall, a full MLOps pipeline with MLflow and Kubernetes, and an AI-powered job matching platform — all owned end to end. Comfortable across the full backend stack: PostgreSQL, Redis, SQLAlchemy, Docker, AWS, and CI/CD.

TECHNICAL SKILLS

Languages	Python · SQL · Bash
Backend	FastAPI · Django · SQLAlchemy · asyncio · WebSockets · REST APIs · JWT / OAuth2 · RBAC
Databases	PostgreSQL · Oracle · SQLite · Redis · Qdrant (Vector DB)
ML / MLOps	Scikit-learn · XGBoost · LightGBM · Isolation Forest · MLflow · Pandas · NumPy · TensorFlow · GRU · CNN
Cloud & DevOps	Docker · Kubernetes · AWS (Lambda · EC2 · S3) · GitLab CI/CD · Git · Linux
Observability	Prometheus · Grafana · Elasticsearch · Celery · RabbitMQ
AI / LLMs	OpenAI API · sentence-transformers · Prompt Engineering · Model Evaluation

EXPERIENCE

Software Engineer — AI Systems Evaluation (Contract)

Mar 2026 – Present

Alignerr · AI Model Evaluation, in partnership with Anthropic · Remote

- Design and implement real-world software engineering tasks to evaluate competing AI coding agents (Claude Code) — covering backend features, refactors, debugging, and test coverage across Python codebases
- Write CLAUDE.md project specifications and task prompts that require genuine architectural reasoning; construct adversarial scenarios to surface model failure modes such as overconfidence, silent scope reduction, and dishonest progress reporting
- Score each model across 14 engineering behaviour dimensions — ambiguity handling, code quality judgment, QA rigour, and epistemic integrity — and produce detailed qualitative feedback that feeds directly into model training

Backend Software Engineer

Sep 2024 – Feb 2026

InnoTech Consulting Group · Custom Software Development · London, UK

- Built a production fraud detection API end to end — FastAPI, Redis, Celery, RabbitMQ — processing 300,000+ transactions daily at under 100ms; XGBoost + Isolation Forest ensemble with SMOTE achieved 92% recall and 0.94 AUC on a 0.1% fraud-rate imbalanced dataset
- Designed a full MLOps pipeline with MLflow for experiment tracking and model versioning; deployed a loan default prediction model (89% accuracy, 0.87 AUC) to AWS Lambda and Kubernetes with automated retraining triggered by model drift
- Built an AI-powered job matching platform using FastAPI and GPT-4o-mini for skill extraction and sentence-transformers for semantic similarity — 83% match accuracy across 80+ skill synonyms, live at ai-job-matcher-chi.vercel.app
- Developed an async Telegram bot (1,000+ users) with SQLite caching that cut API calls by 60%; separately built a Django consulting platform with PostgreSQL and AWS S3, improving Lighthouse performance by 45%

Backend Engineer (Contract)

May 2025 – Jul 2025

KodjoEnglish · EdTech Platform, 1,600+ Students · Remote · New York

- Brought in to fix critical database performance issues; composite indexing on PostgreSQL cut query time from 8s to under 200ms — 97% improvement across 50,000+ daily queries
- Deployed FastAPI microservices with JWT/RBAC to Kubernetes on AWS EC2 with auto-scaling for 500+ concurrent users; integrated Qdrant for semantic content search and built a YouTube Q&A Telegram bot that returns relevant video clips in response to student questions
- Set up GitLab CI/CD with Docker and pytest, cutting deployment time by 70%; configured Prometheus + Grafana dashboards and Elasticsearch log analysis

Software Engineer — Fraud Detection & Data Systems

Jan 2021 – Aug 2023

Tejarat Bank · Commercial Bank, 5M+ Customers · Tehran, Iran

- Built the automated fraud detection system in Python and SQL (Oracle), processing 10,000+ transactions daily; rule-based anomaly detection and statistical scoring cut manual investigation time by 30%
- Tuned Oracle queries, added indexing, and rewrote stored procedures — improved compliance reporting speed by 40%
- Developed internal compliance dashboards and data management tooling using Django to give the fraud and compliance teams visibility over transaction flags and investigation queues
- Integrated Qdrant vector search for fraud pattern similarity matching and engineered fraud-signal features from transaction data, reducing false positives by 25%

EDUCATION

MSc Artificial Intelligence

Sep 2023 – Sep 2024

Brunel University London

- Dissertation (Grade A): Stock Market Forecasting — Hybrid GRU-CNN architecture on 1.5M financial records, MAE 0.145, outperforming LSTM baseline by 18%
- Modules: Machine Learning · Deep Learning · NLP · Computer Vision · Reinforcement Learning · Data Mining

BSc Software Engineering

2018 – 2022

Mazandaran University of Science & Technology, Iran

SELECTED PROJECTS

Real-Time Fraud Scoring API — <100ms inference on 300,000+ daily transactions · 92% recall · 0.94 AUC · full MLOps pipeline

Python · FastAPI · XGBoost · Isolation Forest · Docker · Kubernetes · MLflow · Redis github.com/ashkan3171/real-time-fraud-scoring-api

AI Job Matcher — CV-to-JD skill matching at 83% accuracy · 80+ synonym mappings · live demo at ai-job-matcher-chi.vercel.app

FastAPI · GPT-4o-mini · sentence-transformers · Docker · Railway · Vercel github.com/ashkan3171/ai-job-matcher

Telegram Music Bot — Async bot serving 1,000+ users; returns music on demand with intelligent caching that reduced API calls by 60%

Python · FastAPI · SQLite · asyncio · Docker github.com/ashkan3171/Telegram-music-bot

Face Segmentation API — Facial landmark detection and segmentation REST API — built for a client aesthetic analysis platform

Python · FastAPI · Computer Vision · Docker github.com/ashkan3171/qoves-face-segmentation-api

CERTIFICATIONS

The Legend of Python · Codédex

Jan 2026

SQL (Intermediate) Certificate · HackerRank

Dec 2025

AI Fluent Tech Professional · Calyptus · Top 5% of verified professionals

Nov 2025