

PEDRAM GHASSEMI

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WORK EXPERIENCE

Automation & Outreach Consultant (Part-time) | Flex Matters

09/26 – Present

- Designed and built automated scraping pipelines to monitor regional employer career portals and directories across Sussex, identifying high-intent hiring signals.
- Automated lead enrichment and outreach workflows, supplying a continuous stream of verified prospective employers with zero manual research overhead.

Founder & AI Automation Engineer | BrightonPartTimer.co.uk

05/26 – Present

- Built and launched a local part-time job platform after identifying a gap in Brighton's recruitment market, helping students and local job seekers to find genuine part-time opportunities in one place.
- Designed and built an automated job discovery pipeline that monitors employer career pages, detects new vacancies, and used AI where it added real value to validate and extract structured job data before a final human approval step.
- Built the platform to run with minimal maintenance and operating costs through automation, allowing it to scale without increasing day-to-day workload.
- Referred 2,000+ job seekers to employer career pages in the first two months after launch, with users sharing vacancies 200+ times, showing strong early engagement.

Quantitative Researcher | Self-employed

10/23 – 05/26

- Expanded the core trading system into a systematic research platform, automating data preprocessing, technical indicator calculations, and portfolio performance tracking.
- Coded a walk-forward back-testing engine to simulate and refine strategies on historical 1-minute market data.
- Implemented automated market regime detection (Directional Change/ATR logic) and pattern recognition classifiers to generate systematic trade signals.
- Validated strategies using Monte Carlo simulations and post-entry statistical analysis (MFE/MAE) to design and automate dynamic, volatility-adjusted trailing stop-losses.

Quantitative Trader | Self-employed

03/20 – 08/22

- Designed and built a Python-based risk management system that automated position sizing, leverage calibration, and liquidation safety checks for live spot and futures trading.
- Integrated exchange APIs to stream real-time market data, automate order execution, and enforce strict risk-to-reward filters before any trade is sent.
- Created an automated logging system that tracked trade parameters and P&L in a local database, streamlining post-trade performance reviews.

Teaching Assistant | Alpha Investment Trading Academy

09/19 – 03/20

- Mentored 12 students in technical market analysis and trade execution, overseeing 500+ trades with a strong focus on risk management and position sizing.
- Delivered weekly sessions on trading psychology and behavioral finance, emphasizing discipline and continuous improvement in real-market conditions.

EDUCATION

MSc. FinTech, Risk and Investment Analysis (Distinction) | University of Sussex Business School 2022 – 2023

CFA and CISI-accredited program

Summary: Focused on quantitative finance, machine learning, and financial modelling — mostly using Python to work through real financial data, test ideas, and build strategies that hold up under scrutiny.

Research Study: Evaluated how UK robo-advisors actually perform against traditional benchmarks using Value at Risk (VaR), CVaR, and risk-adjusted return metrics. The research involved hands-on empirical analysis and a critical look at whether algorithmic investment strategies deliver what they promise.

BEng. Mechanical Engineering (Distinction) | Azad University

2015 – 2019

SKILLS

Automation: AI Workflow Automation • Process Automation • Workflow Design • Automation Architecture

Programming: Python • SQL • REST API Integration • Git • Data Processing Pipelines

Analysis: Quantitative Research • Statistical Analysis • Financial Modelling • Risk Management

Business & Product: Product Development • Business Process Optimisation • Problem Solving • Analytical Thinking