

Shehryar Hassan Khan

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EDUCATION: University of Hertfordshire, Hertfordshire, UK **Bachelor of Science (BSc)** in Computer Science. *Majors: Data Science | Minors: Cybersecurity — Graduated February 2022*

Professional Profile: Data Scientist & System architect with foundations in quantitative analysis, optimization, and modular AI systems. Founder of ByteResponse LLC where projects range from business intelligence, quantitative research, analysis & Development, data-pipelines that are compliance first, algorithmic trading frameworks & AI agent based systems for dynamic pain points.

PROFESSIONAL EXPERIENCE

Founder & Technical Architect + Developer | ByteResponse LLC | Dallas, TX | Jan 2024 – Present (Bootstrap)

- Built a reusable compliance based data pipeline with 13 & expanding [FRED, Census & other data sources for foot-traffic etc] for cross-vertical use-cases, **Reducing reliance on premium data costs that can exceed \$600+/month.**
- *Built modular, secure, AI-native platforms for Business Intelligence, forecasting, reporting and decision intelligence (Cream & Crepes for 3 locations). **Reducing ad spend by 15 % & increasing sales by 8 percent via foot traffic analysis, transport aware network inventory distribution + staff scheduling optimization models.***
- The Daedalus Initiative: Quantitative reports, algorithms & RAG-Based Alpha engine that generated data backed signals..
- Leading the design & development for **OSI based AI-native OS** with hybrid memory, dynamic logging architecture and autonomous agent workflows. Engineering aimed at autonomous knowledge coordination & scalable inference.
- Directed market research, partner outreach, and AI integration across verticals (e.g., healthcare, real estate, ops)
- Partnerships outreach for logistics & healthcare targeted for NGO-deployable systems for **ER planning, predictive diagnostics, capacity modelling, pandemic forecast and operational planning.**

SKILL(s): Secure systems design, Logistics optimization, Business Intelligence, Model optimization, Transportation network modelling, Data mining, ETL, FastAPI, Forecasting, Decision Intelligence, Docker, Infrastructure scaling, SQL, secure development, quantitative research and analysis, API integrations, compliance first data engineering.

Data Analyst (Operational Excellence Department) | Base Camp Data Solutions | Islamabad, PK | Feb 2022 – Nov 2022

- *Large scale automated workflows for data extraction using browser automation and public/private APIs for real-time **business insights across 4 departments.***
- *Built real time interactive dashboards & conducted sentiment analysis on social and behavioral data **to support product delivery decision making.***
- *Performed Data wrangling, visualization, and reporting **for operational and strategic decision-making insights.***
- *Leading & delivering Python automation training sessions for the organisation to increase their skills.*
- *Introduced & conducted **vulnerability assessment on the main company website that led to main payment gateway.***
- *Presentations of business intelligence to stakeholders by turning raw data into strategic intelligence based decision making for clear business decisions across departments.*

SKILL(s): Data Mining, Business Intelligence, API Integration, Data Visualization, Dashboarding, Storytelling with Data, Executive Presentations, Strategic Reporting, Sentiment Analysis, Cybersecurity, Leadership, Tableau, FastAPI, Python, SQL,

Quantitative Developer (SELF) | Remote | Sep 2020 – 2025

- *Deployed algorithmic trading strategies for CEX arbitrage, futures, and FX, **Python, MT4/MT5, and Binance APIs** - sheer focus on execution efficiency, latency, slippage, and cost optimization.*
- *Modular trading algorithms using **logarithmic/polynomial regression, divergence, and multi-factor macroeconomic models**, following Jim Simons' quantitative research principles. **Machine learning models: XGBoost, LSTM, and ensemble classifiers** to optimize entry/exit signals, regime change detection, and volatility based forecasting. Developed a CLI-based trading framework: **real-time order flow visualization**, session-specific strategy execution, and **Sharpe ratio / win-rate tracking** for continuous strategy refinement*

SKILL(s): Python, MT4/MT5, API, Financial Data Analysis, Quantitative Research, Regression Analysis, XGBoost, LSTM, Time Series Forecasting, Volatility Modeling, Statistical Arbitrage, Macro-Economic Modeling, Algorithmic Trading, Order Flow Analysis, CLI Development, Feature Engineering, Strategy Backtesting, Performance Metrics.