

Sameer Qureshi

AI Engineer

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AI Engineer with 1 year of experience building intelligent applications, automation workflows, and scalable web platforms across Python, LangChain, OpenAI APIs, React.js

EXPERIENCE

Junior AI Engineer – ByteBoom

2025 – Present

Peshawar, Pakistan

- Delivered end-to-end AI-powered applications for clients in fintech, healthcare, and e-commerce.
- Built LangChain RAG pipelines, OCR-to-ERP integrations, and trading bots shipped to production.
- Maintained CI/CD pipelines via GitHub Actions; advised clients on prompt engineering and API cost optimisation.

KEY PROJECTS

MarketPulse – Multi-Agent Crypto Market Intelligence Platform

2025 – 2026

Python • LLM/VLM • Microservices • REST APIs • Blockchain & Financial Data APIs

Architected and deployed 8 independently running microservices for automated crypto market analysis, each exposed via REST API and orchestrated as a unified intelligence platform:

- **Volatility & Top Gainers:** real-time volatility classification and momentum ranking engine.
- **TA Engine:** automated technical analysis across Fibonacci, Elliott Wave, Ichimoku, Wyckoff, and Gann methodologies.
- **VLM Service:** vision-language model for visual chart pattern confirmation, cutting false-positive technical signals.
- **Whale Tracker & Liquidation Map:** on-chain whale wallet flow analysis and liquidation cluster detection for risk-zone identification.
- **Fund Flow & OI:** perpetual futures funding rate and open interest tracking for derivatives positioning signals.
- **ETF & Macro:** ETF flow aggregation and macro indicator tracking (VIX, DXY, SPX) to contextualise crypto moves.
- **News & Sentiment:** LLM-based real-time crypto news sentiment scoring engine.

NewsIntel – News Intelligence Dashboard

2025 – 2026

Next.js • React • TypeScript • REST APIs • Vercel

- Built and shipped a Next.js (React + TypeScript) news intelligence dashboard aggregating headlines from 360+ RSS sources into an Executive Daily Briefing with live refresh.
- Developed topic modules for Cloud & DevOps, Forex, Gold & Metals, and Cybersecurity, with command palette navigation and clickable Hot Trends and Operations Timeline views.
- Integrated market telemetry and weather APIs plus article thumbnail imagery; deployed and maintained on a GitHub/Vercel-ready CI/CD workflow.

Local ERP – Windows Desktop ERP Application

2025 – 2026

Electron • Next.js • SQLite • Prisma

- Built a Windows desktop ERP using Electron + Next.js with a local SQLite (Prisma) database, covering clients, invoices, quotations, purchases, inventory, reports, and settings modules.
- Implemented A4 Pakistani Sales Tax invoice printing and Excel database backup export, with offline-first data storage and automatic DB schema updates.
- Delivered a production-ready packaged app with Electron integrations for printing, IPC, and startup/runtime management.

SRE-Bench – Autonomous SRE Agent Benchmarking Platform

2025 – 2026

Python • LLM Evaluation • Click/Rich • SQLite • Matplotlib

- Built an async platform benchmarking frontier LLMs as autonomous SRE agents in simulated production incidents, using a stateful tool simulator that gates discovery of multiple hidden root causes.
- Designed a hybrid scoring system (deterministic validation + LLM-as-a-judge) penalising false resolutions and hallucinated tool calls, with a Click/Rich CLI for concurrent runs and SQLite-backed leaderboards.
- Generated a self-contained HTML dashboard comparing models on score, cost, latency, and failure detection.

AlgoTrade Pro – Algorithmic Trading Bot

2025

Python • Binance • OpenAI • AWS ECS • Terraform

- Automated crypto trading bot with RSI, MACD, and Bollinger Bands strategies; integrated OpenAI-powered news sentiment analysis to enrich trading signals.
- Engineered stop-loss, take-profit, and position-sizing controls, achieving sub-200 ms order execution via `asyncio`; deployed on AWS ECS using Terraform for infrastructure-as-code provisioning.

InvoiceFlow – OCR to Odoo ERP Integration

2025

Python • Tesseract • OpenAI • FastAPI • Odoo

- Built a pipeline extracting structured data from invoices (PDF/JPG) and pushing records into Odoo via JSON-RPC at ~96% accuracy, using GPT to validate and normalise fields and cutting manual entry errors by ~90%.
- Deployed as a FastAPI micro-service with a Streamlit review UI and IMAP email-trigger for fully automated ingestion.

ScheduleAI – Timetable Generator

2024 – 2025

Django • Next.js • Genetic Algorithms

- Full-stack app generating conflict-free academic timetables for 50+ courses in under 15 seconds using a genetic algorithm engine, with a Next.js frontend featuring drag-and-drop editing and real-time conflict highlighting.

Doctor Bot – AI Medical Chatbot

2024

LangChain • OpenAI API • Gradio • OCR

- Medical assistant chatbot for symptom-to-diagnosis and treatment recommendations with multi-turn memory; integrated OCR to parse and summarise uploaded medical reports within the chat interface.

OncoPred – Breast Cancer Prediction App

2024

Python • scikit-learn • XGBoost • Streamlit

- XGBoost ensemble achieving 97.4% accuracy, with SHAP explainability for clinical feature insights.

EDUCATION

University of Engineering and Technology (UET), Peshawar

2021 – 2025

Bachelor of Science in Computer Science

Peshawar Model Degree College

2019 – 2021

FSc (Pre-Engineering)

SKILLS

- **Languages:** Python, JavaScript, TypeScript, HTML5, CSS3
- **Frontend:** React.js, Next.js, Tailwind CSS, Electron, Responsive Design
- **Backend:** Django, FastAPI, Node.js, REST APIs
- **AI / ML:** LangChain, OpenAI API, RAG, LLM Evaluation, scikit-learn, XGBoost, Prompt Engineering
- **OCR / Vision:** Tesseract, PaddleOCR, OpenCV
- **ERP & Integrations:** Odoo 16/17, Binance API, IMAP Automation, RSS Feed Aggregation
- **Databases:** PostgreSQL, MongoDB, SQLite, Prisma
- **Tools & Deployment:** Git, GitHub Actions, Docker, Terraform, AWS ECS, Vercel, Streamlit, Gradio, Jupyter Notebook
- **Languages Spoken:** English (Professional Working Proficiency), Urdu (Native)