Muhammad Faizan Sajid

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EXPERIENCE

Back-End AI Engineering Intern — FlyRank AI *Jul 2026 – Aug 2026*

Remote · Python, FastAPI, PostgreSQL, Docker, Supabase

- Architected a scalable backend service for per-tenant API/AI-token usage metering and strict monthly quota enforcement.
- Developed a scalable usage metering and billing engine using FastAPI, PostgreSQL, and Docker, supporting idempotent event recording and strict quota enforcement.
- Integrated secure webhook signature verification (Lemon Squeezy) for robust, real-time subscription state synchronization.
- Implemented advanced cost-calculation logic for AI-token pricing rules, ensuring system correctness and accuracy under concurrent requests and network retries.

PROJECTS

Centralized Student Information System — Natural-Language Interface via RAG Pipeline *2025*

- Built a RAG pipeline letting users query a confidential MySQL student database in plain English, without the LLM ever touching the database directly — only pre-filtered, code-retrieved text chunks reach the model.
- Replaced an earlier Text-to-SQL approach after it hallucinated column names and broke on joins; redesigned around ChromaDB vector retrieval and HuggingFace sentence-transformers (all-mpnet-base-v2) for accurate, controlled data access.
- Achieved 94% accurate name extraction and 96% correct response generation across test queries, with sub-2-second end-to-end response time (Groq API, Llama 3-70B) on a 100-student, 3-table test dataset.
- Implemented core Python pipeline, LangChain orchestration, and both CLI and Streamlit interfaces; collaborated in a 3-person team on data structuring and testing.

Qubic Audit and Voting DApp Platform *Rise Your Hack Hackathon 2025*

- Secured 2nd place at the Rise Your Hack Hackathon (Qubic Track, via Lablab.ai), collaborating remotely from Pakistan with a France-based team on a decentralized voting platform for the Qubic blockchain.
- Built the Python integration layer connecting real Qubic Dev Kit execution to the auditing platform — replacing its static simulation step with actual contract compilation, testnet deployment, and live function calls.
- Wrote integration tests and demo scripts validating real contract deployment and execution against the Qubic testnet.

Smart Health Risk Predictor — Machine Learning | Streamlit | scikit-learn *2025*

- Developed an end-to-end machine learning app to predict heart disease risk using user-provided health data.
- Trained a Random Forest Classifier on the UCI Heart Disease dataset with feature engineering and one-hot encoding.
- Built an interactive front-end with Streamlit for real-time predictions.

EDUCATION

The University of Agriculture, Peshawar *2021 – 2025*

Bachelor of Science in Computer Science (Graduated: July 2025)

LEADERSHIP / EXTRACURRICULAR

- Teaching & Mentorship: Assisting peers in Python, AI, and ML concepts.
- Tech Community Engagement: Sharing AI & ML insights on GitHub & LinkedIn.
- **2026 | Prospective Section Leader, Code in Place X, Stanford University (Online)** — Preparing to facilitate Python sections, grade assignments, and mentor beginners in a global learning environment.

ACCOMPLISHMENTS

- Achieved strong Python expertise through project-based learning, including a hands-on backend engineering internship at FlyRank.
- Secured 2nd place in an international-level Hackathon by developing an innovative solution under time-constrained, competitive conditions.

SKILLS

Programming Languages: Python, TypeScript, SQL, OOP, Data Structures & Algorithms
Backend / APIs: FastAPI, Flask, REST API Design, Pydantic, uv (Python package management)
Databases & Auth: PostgreSQL, SQLite, MySQL, psycopg, Supabase
DevOps: Docker, Docker Compose, Git, GitHub
ML/AI/Data Science: Deep Learning, Generative AI, Data Preprocessing, EDA, Feature Engineering, Model Evaluation
Libraries & Tools: TensorFlow, Keras, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter, Google Colab
Soft Skills: Teamwork, Communication, Adaptability, Critical Thinking
Languages: English (IELTS 6.5), Urdu (Native)

CERTIFICATES

- Google Data Analytics Specialization – Google – Coursera
- Machine Learning Specialization (Andrew Ng) – Coursera
- Python Bootcamp Certification – 365 Data Science