

SHAH MEER

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OBJECTIVE

High-performance Software Engineer and Full-Stack Developer specializing in Python (FastAPI) and scalable backend architecture. Experienced in implementing custom machine learning frameworks from scratch and orchestrating microservices with Docker. Eager to leverage strong system design fundamentals and data pipeline expertise in production-ready engineering roles.

TECHNICAL SKILLS

Programming Languages: Python (Advanced), C++ (STL/OOP), JavaScript (ES6+), SQL, HTML5/CSS3

Backend Frameworks: FastAPI, Flask, SQLAlchemy, Alembic, Pydantic, RESTful APIs

Frontend Development: Next.js (App Router), React.js, Tailwind CSS, WebSockets

Data Engineering & ML: NumPy, Pandas, Matplotlib, Custom Ensemble Modeling, Time-Series Forecasting

Databases & Caching: PostgreSQL, Redis (Message Queuing), SQLite, Database Design

DevOps & Tools: Docker, Docker Compose, Git, GitHub Actions (CI/CD), Linux/Bash

PROJECTS

Nexus-Stream | High-Performance Data Pipeline

2026

- Engineered a **C++ processing engine** utilizing **Redis** as a message broker to ingest **5,000+ events per second** with sub-10ms latency.
- Orchestrated a 5-tier microservice ecosystem using **Docker Compose**, establishing automated validation testing and 100% environment parity.
- Technologies:** C++, Python, FastAPI, Redis, PostgreSQL, Docker, Git.

TeamFlow | Full-Stack Performance Platform

2026

- Architected a real-time analytics dashboard using **JS** and **WebSockets**, allowing seamless metric visualization without page refreshes.
- Designed a scalable relational database schema with PostgreSQL, managing structured team metrics.
- Technologies:** Tailwind CSS, FastAPI, PostgreSQL, Alembic, Docker.

Spendly | AI-Powered Predictive Expense Tracker

2025

- Implemented a custom **Ensemble ML model** (Linear Regression & Exponential Smoothing) from scratch, achieving **80%+ forecasting accuracy**.
- Developed a secure **FastAPI** backend featuring custom-built **JWT authentication** alongside a vanilla JavaScript data visualization dashboard.
- Technologies:** Python, FastAPI, SQLite, Machine Learning, JWT, JavaScript.

CERTIFICATIONS

- Programming with C++ Certificate (Coursera)

2025

EDUCATION

University of Engineering and Technology (UET)

Lahore, Pakistan

Bachelor of Science in Computer Science

Sep 2024 – June 2028

- Academic Honors:** **Honahar Scholarship Recipient** – Awarded for elite academic standing and performance.
- Relevant Coursework:** Data Structures & Algorithms (DSA), Object-Oriented Programming (C++), Operating Systems, Database Management Systems.