

Syed Asjad Abbas

AI/ML & Full-Stack Engineer · FastAPI · React.js · NLP · Real-Time Systems

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SUMMARY

Computer Science student at COMSATS University Islamabad with experience building and shipping real-world software systems across AI, backend engineering, and full-stack development. Founded Zeploy Tech, completed a 7-month software engineering internship at Svyte, and currently building MockAI, a multimodal AI interview evaluation system. Focused on FastAPI backends, React.js applications, NLP pipelines, and scalable software architecture.

EXPERIENCE

Zeploy Tech | Founder & Lead Engineer | Apr 2026 – Present

- Founded an AI-focused software studio and independently shipped EduCart and a Gym Management System for paying clients within 60 days.
- Architected full-stack applications using FastAPI, React.js, MySQL, JWT authentication, and GitHub Actions CI/CD deployments to Vercel.
- Reduced average API latency by ~35% through query indexing, connection pooling, and FastAPI response optimization.
- Managed complete product lifecycle including requirements gathering, system design, deployment, QA, and post-launch maintenance.

Svyte | Software Development Intern | Sep 2025 – Apr 2026

- Contributed to TuneBox, a Flutter music streaming application, by building UI modules, integrating REST APIs, and managing application state using Provider architecture.
- Reduced UI codebase size by 40% through reusable component abstraction for playback and playlist systems.
- Collaborated on API contract design, frontend integration testing, and debugging rendering inconsistencies across playback modules.

Freelance | Backend & Full-Stack Developer | 2024 – Present

- Delivered backend APIs and full-stack applications for local businesses using FastAPI, React.js, MySQL, and JWT authentication.
- Improved database performance and deployment workflows across client systems in e-commerce and business management domains.

PROJECTS

MockAI — AI Interview Evaluation System (FYP)

Python · FastAPI · React.js · MongoDB · BERT · DeepFace · Whisper

- Developing a multimodal AI interview evaluation platform combining BERT semantic analysis, DeepFace emotion recognition, and Whisper-based speech transcription into a unified assessment pipeline.
- Built a structured feedback engine for evaluating confidence, coherence, and domain knowledge with actionable improvement insights.

EduCart — E-Commerce Platform

React.js · FastAPI · MySQL · JWT · CI/CD · Vercel

- Built a full-stack e-commerce platform with authentication, product management, cart/checkout workflows, and admin controls.
- Optimized MySQL schema performance and deployed automated CI/CD pipelines using GitHub Actions and Vercel.

TuneBox — Music Streaming Application

Flutter · REST APIs · Provider · Postman

- Contributed to a Flutter-based music streaming application by developing reusable audio components and integrating playback APIs.
- Reduced frontend code duplication by 40% through reusable UI abstraction and improved state management patterns.

EDUCATION

COMSATS University Islamabad

Lahore Campus

B.S. Computer Science

2023 – 2027

ML · CV · NLP · Databases · OS

TECHNICAL SKILLS

LANGUAGES

Python · JavaScript · Java · SQL · C#

AI / ML

NLP · Deep Learning · BERT · DeepFace · OpenCV · scikit-learn · HuggingFace Transformers · PyTorch

FRONTEND

React.js · Flutter · Tailwind CSS ·

BACKEND

FastAPI · REST API Design · JWT Auth · WebSockets

DATABASES

MySQL · MongoDB Atlas · Firebase · PostgreSQL

DEVOPS & TOOLS

Git / GitHub · Docker · Vercel · CI/CD · Postman · Jupyter · Linux

CONCEPTS

System Design · REST Architecture · MVC · SDLC · Agile/Scrum

CERTIFICATIONS

Deep Learning Specialization

DeepLearning.AI · Coursera · 2026

Google AI Essentials

Google · Coursera · 2026