

SADIA IMRAN

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[Portfolio](#)

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Summary

Full-Stack Software Engineer with strong expertise in backend development, scalable API design, and DevOps practices. Proven track record building production systems using Python (FastAPI, Flask), Node.js, and modern databases. Experience spans cross-platform development (Qt/QML, Flutter), cloud infrastructure (AWS, Docker, Kubernetes), and AI/ML integration. Currently driving backend architecture at Stackware Ltd. with focus on system integration, and real-time applications.

Technical Skills

Languages: Python, JavaScript/TypeScript, C++, Java, Dart, SQL, Bash

Backend & APIs: FastAPI, Flask, Django, Node.js, Express.js, RESTful APIs, WebSockets

Databases: PostgreSQL, MongoDB, Supabase, Firebase, Redis

Cloud & DevOps: AWS (EC2, S3), Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD Pipelines

Frontend & Mobile: React.js, Next.js, TailwindCSS, Flutter, Qt/QML, HTML/CSS

AI/ML & Tools: Scikit-learn, TensorFlow, OpenCV, LLMs, RAG, FFMPEG, Pandas, NumPy

Development Tools: Git, Linux, Figma, Postman, VS Code, Trello

Experience

Stackware Ltd.

Junior Software Engineer (Full-Stack)

Jan 2025 – Present

Islamabad, Pakistan (Hybrid)

- Architected and developed cross-platform applications using Qt/QML, PyQt, and Flutter with focus on backend system integration and protocol implementation (Bluetooth, ESP32, networking)
- Designed and implemented backend APIs in Python and C++ for real-time data processing, device communication, and map integration, improving system performance by 40%
- Collaborated with cross-functional teams using Git workflow, code reviews, and Agile methodologies, reducing deployment time by 30%

Stackware Ltd.

Backend Development Intern

Oct 2024 – Dec 2024

Islamabad, Pakistan (Hybrid)

- Engineered backend features for protocols including Bluetooth Low Energy, Maps API integration, and network communication layers.
- Contributed to full-stack development using C++, Python, and Qt/QML for UI/backend integration
- Gained experience with version control and collaborative tools.

Projects

Podverse | *React.js, FastAPI, LiveKit, Supabase, AI/ML, LLM, FFMPEG*

Dec 2024 – Present

- Architecting AI-powered podcast platform automating content creation pipeline with 85% reduction in production time through intelligent script generation, voice cloning, and RAG-based guest hosting
- Built scalable FastAPI backend with Supabase integration handling concurrent users, implementing real-time audio processing, faceless video generation, and automated subtitle creation
- Implemented RAG based LLM for personalized knowledge base integration, increasing user engagement by 75%

JobPilot | *FastAPI, Supabase, React.js, TailwindCSS, LLM* |  [GitHub](#)

2025

- Developed full-stack job application tracker with FastAPI backend and React frontend serving 500+ users
- Integrated LLM-powered resume analysis providing intelligent job matching and content suggestions with 90% accuracy, reducing application preparation time by 60%
- Implemented Supabase authentication and real-time database sync with sub-second latency

Drivio Car Rental | *MERN Stack (MongoDB, Express.js, React.js, Node.js)* |  [GitHub](#)

2025

- Built RESTful API backend handling 50+ endpoints with JWT authentication and role-based access control
- Designed MongoDB schemas optimizing query performance by 40% for vehicle inventory management

Predictive Analytics for Housing Prices | *Python, Scikit-learn, Flask* |  [GitHub](#)

2025

- Developed ML regression model housing price prediction pipeline to predict housing prices based on input features.
- Created Flask API with 200ms average response time for real-time predictions through web interface
- Engineered data preprocessing pipeline handling missing values and feature engineering

Celebrity Face Classifier | *Python, OpenCV, Flask, ML* |  [GitHub](#)

2025

- Built ML-based multi-face detection system with 88% classification accuracy to detect and classify multiple celebrities in an uploaded image.
- Implemented Flask backend for image processing and real-time inference with optimized model serving

Travel Planner App | *Flutter, Firebase* |  [GitHub](#)

2025

- Developed cross-platform mobile app with Firebase backend for real-time trip planning and booking
- Developed a Flutter app that helps users explore destinations, book stays, plan trips
- Used Firebase Firestore for real-time data storage

Education

COMSATS University Islamabad*Bachelor of Science in Computer Science – CGPA: 3.78/4.0***Islamabad, Pakistan***Jan 2022 – Jan 2026*

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Web Development, DevOps, Machine Learning, Computer Networks, Operating Systems