IMRAN KHAN

Senior Software Engineer

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PROFESSIONAL SUMMARY

Seasoned Python Developer with 9+ years of hands-on experience building high-impact, scalable software solutions. Specializes in designing full-stack web applications, cloud-native architectures, and robust data pipelines across diverse industries including aerospace, manufacturing, and finance. Passionate about leveraging Generative AI and modern engineering practices to solve real-world problems and deliver measurable business value.

Core Strengths:

- Full-Stack Engineering: Python, Flask, Django, FastAPI for building secure and responsive applications
- GenAI / LLM Engineering: Prompt Engineering, Fine-Tuning, RAG Pipelines, Agentic AI Workflows, OpenAI GPT, LangChain, Embeddings, Vector Databases (ChromaDB), Semantic Search, NLP
- DevOps and CI/CD: GitLab CI/CD, Jenkins, Docker, Kubernetes for seamless automation and deployment
- Database and Caching: PostgreSQL, MongoDB, Supabase, Redis for optimized data storage and retrieval
- REST API Design: Expertise in building RESTful services following OpenAPI standards
- Microservices Architecture: Designed and implemented scalable, communicative microservices systems
- Code Quality and Testing: Pytest, SonarQube, and strong code review culture

TECHNICAL SKILLS

Category	Technologies
Languages	Python, TypeScript, JavaScript, R, SQL
Web Frameworks	FastAPI, Flask, Django, Next.js, Streamlit
AI / GenAI / LLM	OpenAI GPT-4o, LangChain, ChromaDB, RAG (Retrieval-Augmented Generation), Prompt Engineering, LLM Fine-Tuning, Agentic AI, Embeddings, Vector Databases, Semantic Search, NLP, Text Extraction
Databases	PostgreSQL, MongoDB, Supabase, MySQL, Redis
DevOps / Cloud	Docker, Kubernetes, AWS, Google Cloud, GitLab CI/CD, Jenkins
Testing	Pytest, SonarQube, Unit Testing
Tools	Git, Power BI, Apache Airflow, PySide6

PROFESSIONAL EXPERIENCE

Senior Software Engineer

SII India IT and Engineering Services Pvt Ltd (Client: Airbus, France) 02/2024 – Present | Bangalore, India

Leading end-to-end development of mission-critical engineering tools for Airbus through SII Group, enhancing operational performance, data integrity, and system efficiency.

- Architecting scalable solutions using Python and FastAPI for aerospace engineering workflows
- Driving DevOps excellence with GitLab CI/CD, Docker, and SonarQube for quality and automation
- Delivering production-grade tools adopted across Airbus internal engineering workflows

Key Deliveries:

- **VSIM-D Booking Application:** Developed a web-based resource scheduling system for Airbus iFCS (Integrated Flight Control System) teams to manage and book VSIM-D (Virtual Simulation Desktop) test stations, improving resource utilization and team coordination
- **OPCTool:** Interactive desktop tool to transform aircraft data into real-time operational insights
- **PASTIS:** Dynamic project and task management web app with real-time updates and role-based control
- **ICDVCOM:** Automation engine for ICD generation (.xlsm) with smart editing and export features
- **Euscadi:** ICD management system with validation logic and error analytics to ensure data consistency

Stack: Python3, FastAPI, PySide6, Docker, GitLab CI/CD, SonarQube, Pytest

Python Developer

Axilwits IT Services (Client: Cisco) 12/2022 – 02/2024 | Bangalore, India

Drove the digital transformation of Cisco manufacturing systems by delivering cloud-native, automated, and highly scalable solutions.

- Led backend engineering for Apollo Cloud 3, a modern cloud-based platform powering next-gen manufacturing pipelines
- Replaced physical test stations with a Kubernetes solution, accelerating hardware delivery and diagnostics
- Delivered automation and reliability at scale using Python, Docker, and Kubernetes

Key Deliveries:

- Developed and deployed microservices for test automation and orchestration
- Wrote production-grade Python code with comprehensive unit tests using Pytest
- Containerized services and integrated them into a CI/CD pipeline
- Optimized existing scripts to boost performance and maintainability

Stack: Python, Docker, Kubernetes, Pytest, Git, CI/CD

Senior Python Developer

Electronikmedia 11/2020 – 11/2022 | Cochin, India

Led backend development for innovative SaaS platforms focused on seamless ETL automation and real-time data synchronization across diverse data sources.

- Engineered scalable pipelines for extracting, transforming, and loading structured and semi-structured data
- Designed microservice APIs and backend logic to support real-time client data operations
- Delivered stable and extensible codebases that improved system reliability and processing speed

Key Deliveries:

- Built core ETL infrastructure using Python and RESTful APIs for seamless data operations
- Integrated backend services with UI modules in collaboration with front-end teams
- Mentored junior developers and ensured code quality through reviews and pair programming

Stack: Python, REST APIs, SaaS Architecture, ETL, Git, Agile/SCRUM

Python Developer

Prowesstics IT Services 07/2019 – 11/2020 | Chennai, India

Built secure, scalable ETL pipelines for financial data systems, enabling clean and reliable data flow across critical business processes.

- Developed and managed Apache Airflow workflows for scheduling and orchestrating ETL pipelines
- Designed end-to-end data pipelines for extraction, transformation, cleansing, and enrichment
- Ensured data accuracy and system stability through validation, logging, and error handling

Key Deliveries:

- Implemented robust data quality checks and automated alerting
- Optimized workflow performance to reduce processing latency
- Contributed to seamless data integration across internal platforms and client systems

Stack: Python, Apache Airflow, ETL, Data Cleansing, Validation, Git, Agile

Software Developer

Codoid 01/2018 – 06/2019 | Chennai, India

Optimized physical asset management systems to enhance lifecycle tracking and asset utilization.

- Developed scalable backend systems and APIs to support real-time asset data tracking and management
- Led the design and deployment of asset management solutions with monitoring capabilities

Key Deliveries:

- Developed CRUD operations for asset tracking using Active Record
- Designed and deployed API systems with AWS architecture for real-time data access
- Configured monitoring scripts for AWS EC2 instances to ensure system uptime

Stack: Python, Django, AWS, MySQL, API Development, Git, Agile

Workforce Planning Associate

Sutherland Global Services 03/2016 – 01/2018 | Chennai, India

Specialized in automating scheduling and forecasting processes, leveraging R and Python to deliver data-driven solutions.

- Developed interactive web applications using R (Shiny) to improve forecasting accuracy
- Applied advanced time series forecasting techniques to predict trends and optimize scheduling

Key Deliveries:

- Automated scheduling and forecasting workflows using R and Python
- Implemented time series forecasting models including ARIMA, Exponential Smoothing, Neural Networks, and Holt-Winters
- Built and deployed R Shiny applications to visualize forecasting models

Stack: R, Python, Shiny, Time Series Forecasting (ARIMA, Neural Networks, Holt-Winters), Machine Learning

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PERSONAL PROJECTS (AI / GenAI)

Resume Shortlisting Automation System

github.com/pydev06/resume_shortlisting_automation_system | Live Demo

AI-powered resume shortlisting platform for HR teams. Parses bulk resumes, semantically matches them against job descriptions using NLP and embeddings, and ranks candidates with explainable scoring.

- Automatic skill extraction and match scoring against job descriptions using OpenAI GPT-4o-mini
- Status classification with detailed justification for each evaluation
- **Stack:** FastAPI, Streamlit, Supabase (PostgreSQL), Google Drive API, OpenAI GPT-4o-mini

Resume Fine Tuner

github.com/pydev06/resume_fine_tuner | Live App

AI-powered resume optimization tool that analyzes and fine-tunes resumes for specific job descriptions, improving ATS compatibility and keyword alignment.

- Full-stack application with TypeScript/Next.js frontend and Python backend
- **Stack:** Python, TypeScript, Next.js, Supabase, Docker, Vercel

EU-AI Job Navigator (Visa-Sponsored Edition)

github.com/pydev06/eu_ai_job_navigator

Comprehensive AI-powered job search platform for EU tech jobs with visa sponsorship detection, RAG-based resume matching, and application automation.

- LLM-based visa classification using GPT-4o-mini with smart ranking (0-100 scoring)
- RAG-based job matching using ChromaDB vector search with skill gap analysis
- Automated resume tailoring, cover letter generation, and interview prep
- **Stack:** FastAPI, Next.js, OpenAI GPT-4o, ChromaDB, Supabase, Docker

AviRiskAI (Private Repository)

AI-powered aviation risk assessment system.

- **Stack:** Python, AI/ML

EDUCATION

B.Tech in Information Technology

LANGUAGES

- English (Fluent)
- French (In Progress)