

Azaz Rashid

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PROFESSIONAL EXPERIENCE

Sr. Python Developer

Upwork Nov 2024 - Present

- Architected and implemented the backend infrastructure for Brilio, an enterprise AI agent platform using **Python, FastAPI, MySQL, Azure, Airflow, and LLMs**
- Developed AI processing modules including **document parsing, web scraping, text-to-speech, speech-to-text, and text-to-SQL** capabilities.
- Built innovative features leveraging **LLMs** (e.g., openai, anthropic, deepseek). Enhanced those features with **Retrieval-Augmented Generation (RAG)** using vector databases and **fine-tuning**
- Implemented **Apache Airflow DAGs** for automated data pipeline management and task scheduling
- Implemented streaming and batch processing for AI model inference, supporting real-time and asynchronous workflows.
- Built integrations for **Telegram & Viber bots, YouTube, Instagram** processing, and various data source connectors with proper error handling and monitoring

Sr. Python Developer

Venrup Oct 2022 - Nov 2024

- Developed customized tools and dashboards for an e-commerce company, automating workflows across multiple departments, including **marketing, sales, and product research teams**
- Engineered an intuitive and secure admin dashboard empowering **admins** to efficiently **onboard new clients**, manage their **brands and products**, and optimize **inventory management processes**
- Spearheaded the migration from Excel dependent workflows to tailored dashboards and automated systems, replacing **90% of manual data entry and processing tasks**
- Wrote complex database queries for **dashboard statistics**, boosting data retrieval speed by **40%** and enhancing **real-time analytics**
- Architected and implemented a **Secure, Multi-tenant, and Scalable** app called FuelMediaTV using **Python, FastAPI, AWS, FFMPEG** and **ImageMagick** enabling users to create and customize promo videos within the platform
- Developed internal tools and admin dashboard enabling users to create marketing promotions, campaigns and dynamic ad serving for **FuelMediaTV**
- Implemented automated tests and **CI/CD** pipelines on **AWS**, reducing bug counts by **50%**, minimizing downtime and improving software quality

Python Developer

Rapidev Jan 2022 - Sep 2022

- Developed and improved processes, **tools, workflows**, and resilient data architecture to **scrape major news and social media sites**
- Engineered an intuitive and secure admin portal using **Django**, empowering **50+** team members to efficiently control, monitor, and audit workflows
- Replaced sequential data process with asynchronous data writing to **Kafka**, allowing **concurrent processing** by other microservices, reducing waiting times by **200%**
- Engineered robust **caching** strategies and **database optimizations**, enhancing system scalability by **70%**
- Led migration of legacy **Flask** system to a **FastAPI** application

Python Developer/ ML Engineer

PanaceaLogics May 2021 – Jan 2022

- Developed real estate and ecommerce web applications using **Django** and **FastAPI**
- Used Beautiful Soup and Selenium to scrape data from the web for the **NLP** model to increase performance
- Designed and developed analysis systems to extract information from large scale data
- Developed AI models for EGT document analyses using **Python, Tensorflow, Spacy, NLTK**

Machine Learning Engineer

Center for Advanced Studies in Energy, UET Peshawar Feb 2020 – May 2021

- Developed an AI model for predicting remaining useful life of an aircraft engine with up to **98% accuracy** (CNN,LSTM,Time series)

SKILLS

• **Python, FastAPI, Django, SQL, Numpy, Pandas, Pytest, Airflow, Selenium, Scrapy, Celery, MySQL, PostgreSQL, MongoDB, Firebase, Docker, AWS, Azure**

EDUCATION

Masters in Computer science for digital media, 2025-Present
BS Computer Systems Engineering, Nov 2019

Bauhaus Universitat Weimar
University of Engineering and Technology Peshawar, Pakistan