

SYED MUJTABA RIZWAN

PYTHON DEVELOPER

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OBJECTIVE

Seeking a role to build scalable web applications, optimize backend performance, and contribute to innovative solutions using my skills, Passionate about clean code, problem-solving, and continuous learning.

EDUCATION

2017 - 2022

Bachelors in Computer Sciences

City Institute of Management and Emerging Sciences, Lahore
(Affiliated with University of Sargodha)

Completed a Computer Science Engineering degree with a focus on software development, algorithms, and system design

WORK EXPERIENCE

Mar 2025- Present

Meissasoft – Python Backend Developer

Designing, developing, and maintaining backend applications using Django, Django REST Framework (DRF), and FastAPI. Integrated OpenAI models into products and collaborated closely with cross-functional teams to deliver seamless user experiences.

Nov 2023 - Mar 2025

DjenericSol – Python Backend Developer

Developing and maintaining backend applications using Django and Django REST Framework.
Implementing RESTful APIs, optimizing database queries, and enhancing system performance.
Collaborating with frontend teams and integrating third-party APIs for seamless functionality.

July 2023 – Oct 2023

Internship at DjenericSol Python/Django Developer

Learned the fundamentals of **Core Python, HTML, CSS, Bootstrap, JavaScript**, and the **Django Framework**.

PROJECTS & EXPERIENCE

Web Applications & Platforms

E-Commerce Site (In Progress)

Tech Stack: Django (Backend), Bootstrap (Frontend)-- (Self)

- A custom cake ordering platform, where users can customize and order cakes online
- Implemented secure payment handling and user authentication.

Clap n GO (Lead Full-stack Developer – Built from Scratch)-- (DjenericSol)

Tech Stack: Django, Bootstrap, JS, PostgreSQL, AWS, Docker, REST APIs

- A restaurant management system with web and mobile applications.
- Developed an intuitive restaurant dashboard for managing products and orders.
- Built APIs for mobile apps used by customers, delivery personnel, and dispatchers.
- Integrated a real-time order tracking system with WebSockets and Django Channels.

Drone Mesh (*Backend Developer – Outsourced Project in Hungary*)-- (DjenericSol)

Tech Stack: Django, PostgreSQL, Docker, AWS

- A drone-based delivery system operating in Hungary. Developed RESTful APIs for drone tracking and real-time data processing.

Track and Search Patent (*Full-stack Developer*) -- (DjenericSol)

Tech Stack: Django, Bootstrap, Stripe, Celery, Docker, AWS, Postman, Patent APIs

- A patent tracking system to monitor and manage patent applications. Integrated Stripe for payments and automated tasks using Celery.
- A patent search and management tool for legal professionals Built API. integrations for patent searches and secured user authentication.

Zero Cheating (*Internship – Junior Backend Developer at DjenericSol*)

Tech Stack: Django, PostgreSQL, REST APIs

- An academic integrity platform that prevents cheating in exams through AI-powered monitoring.
- Added new features, optimized API performance, and worked on backend enhancements.

DjenericSol Website (*Frontend Developer*)

Tech Stack: React.js, CSS, Bootstrap

- Created new pages, updated content, and improved UI responsiveness. The official website for DjenericSol, showcasing company services and portfolio.

Mixed Tenure (*Full-stack Developer – 30% Backend, 70% Frontend*) -- (DjenericSol)

Tech Stack: Django, React.js

- A real estate platform for managing and listing rental properties. Developed interactive property search functionality and optimized backend data handling.

Cryptnary (*Backend SEO Developer*) -- (Meissasoft)

Tech Stack: Django, DRF

- Developed and maintained backend systems for a cryptocurrency platform offering crypto trading and educational content.
- Focused on enhancing the website's SEO performance through structured data, optimized backend logic, and content automation.
- Integrated AI models (via prompt engineering) to generate multilingual content and improve scalability of content delivery.
- Collaborated with cross-functional teams to align SEO strategies with business goals and ensure high-performance backend operations

QNH Enterprises (*Full-Stack Developer – Personal Project*)

Tech Stack: Django, Django REST Framework (DRF), HTML, CSS, JavaScript

- Designed, developed, and deployed a fully functional eCommerce platform from scratch, handling both frontend and backend development.
- Implemented key features such as user authentication, product catalog, cart and checkout system, and order management.
- Ensured responsive UI and smooth user experience using custom HTML, CSS, and JavaScript.
- Integrated secure payment gateway and optimized database queries for performance and scalability.
- Deployed the application to a live production environment and continuously monitor and maintain it.

Senior Backend Developer – AES Capital Software (<https://aescapitalsoftware.com/>)

Tech Stack: FastAPI, Python, Supabase, Scrapy/Scrapyd, AI/ML (image comparison models), DigitalOcean, PostgreSQL, REST APIs, Docker, data pipelines

- Worked as a Senior Backend Developer directly with the client on a scalable AI-powered eCommerce intelligence platform focused on product matching, inventory enrichment, and cross-platform price intelligence.
- Designed and developed backend services using FastAPI for high-performance APIs and microservice-based architecture.
- Integrated Supabase for authentication, database management, and real-time data handling.
- Built and optimized AI-powered image comparison pipelines for product matching and duplicate detection using machine learning models.

- Developed and maintained a distributed web scraping system using Scrapy/ScrapyDog, extracting product data from Zoro.com.
- Implemented cross-platform product mapping logic to fetch and relate similar products from Amazon and Walmart.
- Deployed and managed production services on DigitalOcean Droplets, ensuring scalability, uptime, and performance optimization.
- Worked on data pipelines for product normalization, deduplication, and enrichment across multiple marketplaces.
- Collaborated on system design for scalable crawling, queue handling, and background task processing.

Osala – Senior Backend Developer (Present)

Tech Stack: FastAPI, Python, React Native, PostgreSQL, REST APIs, Finix (Payment Gateway), AI/ML (text & image generation)

- Working as Senior Backend Developer on Osala, a SaaS platform similar to Vagaro, offering end-to-end business management tools for service-based businesses including booking, payments, and marketing.
- Designed and developed scalable backend APIs using FastAPI, powering a React Native mobile application for both business owners and their clients.
- Integrated Finix as the payment gateway, handling secure transaction processing, payouts, and financial reporting for the platform.
- Built and integrated an in-app website builder, enabling businesses to create and manage their public-facing pages directly within the platform.
- Implemented social media integrations allowing businesses to connect and manage their social presence from within the platform.
- Developed AI-powered features for automated text generation and image matching to assist businesses in creating content and managing their brand assets.

Audio & Image Processing Projects

Voice/Vocals Separation using Python (Lead Developer)

Tech Stack: Python, Librosa, PyAudio, SciPy, TensorFlow, Tkinter

- Developed AI-based audio separation for vocals and instruments.
- Added noise removal, bass/treble adjustment, and beat extraction.

Electronic Components Recognition (Image Processing) (AI Developer)

Tech Stack: Python, OpenCV, Pillow, TensorFlow, Scikit-learn

- Trained an AI model to detect resistors, capacitors, and diodes in circuit diagrams.
- Implemented real-time image analysis and data visualization.

Game & Fun Projects

Project	Tech Stack	Key Contributions
TicTac Game	Python, Tkinter	Implemented minimax algorithm for AI-based decision-making.
Guess the Number	Python, Random Library	Designed logic for adaptive difficulty levels and interactive hints.
Hangman	Python	Added word banks, scoring system, and user input validation.
Rock Paper Scissors	Python, Random Library	Implemented AI-based random selection and user vs. AI mode.
Madlibs	Python	Designed a dynamic input system for creating custom stories.
Minesweeper	Python, Tkinter	Developed grid-based logic, randomized bomb placements, timer system.

KEY STRENGTH & EXPERTISE

- **Backend Development:** Designing and building high-performance APIs using FastAPI and Django REST Framework; microservice architecture, performance tuning and optimization.
- **AI & ML Integration:** Integrating OpenAI models for content generation; building AI-powered image comparison and matching pipelines; automated text and image generation using ML models.
- **Web Scraping & Data Pipelines:** Developing distributed scraping systems using Scrapy and ScrapyD; product data extraction from eCommerce platforms; data normalization, deduplication, and enrichment pipelines.

- **Payment Gateway Integration:** Integrating Finix for secure transaction processing, payouts, and financial reporting in SaaS platforms.
- **Web Application Development:** Building scalable and maintainable full-stack applications using Django; developing SEO-optimized backend systems and content automation.
- **Database Management:** Efficient data handling and query optimization using PostgreSQL, Supabase, and MySQL; real-time data handling with Supabase.
- **Object-Oriented Programming (OOP):** Strong grasp of OOP principles in Python; clean, maintainable, and reusable code architecture.
- **DevOps & Deployment:** Containerization using Docker; cloud deployment on AWS and DigitalOcean Droplets; managing production services for scalability and uptime.
- **Team Collaboration:** Experience working in agile, cross-functional, and remote teams; direct client communication and stakeholder collaboration.
- **Frontend Development:** Hands-on experience with HTML, CSS, JavaScript, and React Native for UI development across web and mobile platforms.

COMMUNICATION

Collaborated effectively with a remote team based in Hungary while based in Pakistan, demonstrating strong communication and adaptability in a multi-national, distributed work environment.

REFERENCES

Will be furnished upon request.