Hunain Raza
AI Engineer

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Professional Experience

Full Stack Engineer – Working Student
Migrando GmbH
08.2024 - 11.2024

- Automated **CRM** data synchronization workflows by developing **15+** secure **Django REST API** endpoints integrating **HubSpot** and **Zoho** CRMs, reducing manual data entry by **75%** and improving data accuracy across business systems through real-time webhook processing and **OAuth** authentication.
- Streamlined document processing operations by containerizing **StirlingPDF** with **Docker** and building automated PDF conversion APIs, enabling **100%** office-wide access and reducing document processing time by **60%** while adding QR code tracking to **1000+** documents monthly.
- Enhanced business workflow efficiency by designing modular backend architecture and implementing batch data processing solutions, achieving **90%** reduction in CRM sync errors and enabling processing of **500+** records per batch operation through advanced filtering and threading optimization.

Software Engineer – Working Student
Wayfair DE
01.2024 - 07.2024

- Optimized product catalog processing efficiency by **35%** through selective data verification services and **API** modernization, migrating from legacy database systems to **REST** endpoints while implementing UTF-8 encoding that eliminated **100%** of German character display errors across applications and Excel exports.
- Reduced system downtime by **40%** and improved operational visibility by implementing comprehensive monitoring solutions using **Kibana** logs, integrating **Unleash** API for dynamic application control, and resolving critical **SKU** processing bottlenecks that affected thousands of product listings daily.
- Enhanced product transformation workflow reliability by **50%** through automated barrier documentation and cross-functional collaboration, successfully identifying and resolving data pipeline issues while maintaining **99.9%** system stability across **Kubernetes**-orchestrated microservices.

Backend Engineer
Techlabs-cc
08.2022 - 04.2023

- Architected and optimized **REST APIs** achieving **200ms** average response time with **30%** faster database query execution, serving **100+** enterprise customers through a centralized **Django/PostgreSQL** dashboard platform.
- Implemented secure authentication system with **99.5%** connection success rate and integrated **Stripe Connect API**, processing payments for mobile applications while ensuring robust data protection across multiple environments.
- Enhanced frontend performance by **20%** through optimized **HTML/CSS/JavaScript** implementation and seamless **React JS** API integration, improving user experience and website loading speeds.
- Led full-stack development initiatives reducing system response times by **25%** while maintaining scalable architecture for growing user base and cross-platform compatibility.

Education

Masters in Artificial Intelligence   2023 - Present
Brandenburgische Technische Universität Cottbus-Senftenberg

Bachelor's in Computer Science   2016 - 2021
Iqra University Karachi-Pakistan

Skills

Python	Django	Flask	FastAPI	Dash	JavaScript
React	Bootstrap	PostgreSQL	MongoDB	MySQL	MATLAB
C#	GitHub	AWS	GCP	Stripe	Firebase
Docker	Kubernetes	Kibana	Datadog	Unleash	Ngrok
Hugging Face	Scikit-learn	TensorFlow	Numpy	Openai	Selenium

Achievements

2nd Place Winner - 9th CASSINI Hackathon: Space for Healthcare (2025)

ESA Initiative | Senftenberg, Germany | Pan-European Competition

Developed **Luna Smart Health Platform**, integrating **EU Copernicus Sentinel-5p satellite data** with health recommendations. Built **real-time atmospheric monitoring system** using **CAMS datasets**, correlating environmental data with **WHO health statistics** for predictive health insights.

- **Architected satellite data pipeline** processing **Copernicus Earth observation data** via **RESTful APIs**, achieving 90%+ accuracy in **geospatial health recommendations**
- **Led full-stack development** across 72-hour sprint, managing **backend APIs** to **frontend UI design** under high-pressure competition environment
- **Implemented correlation algorithms** linking **satellite air pollutants** (NO_2, SO_2, PM2.5) with health databases for **predictive risk modeling**
- **Secured 2nd place** in Germany among 25 competing teams, demonstrating **space technology** and **environmental data science** expertise

1st Place Winner - Quantitative Data Analysis & Visualization Hackathon (2024)

Brandenburg Technical University Cottbus | Master's in AI Program
Led team to victory developing **Migrando Business Intelligence Platform**, an **ML-powered CRM solution** for immigration services. Architected **predictive analytics system** using **Python** with **Random Forest**, **SVM**, **KNN**, and **Decision Trees** algorithms, achieving 85%+ customer conversion accuracy.

- **Engineered data preprocessing pipeline** with one-hot encoding and feature engineering, processing 10,000+ records using **GridSearchCV hyperparameter optimization**
- **Built end-to-end BI solution** in 48 hours, creating **interactive visualizations** and **confusion matrix frameworks** for actionable business insights
- **Secured employment offer** from Migrando, validating real-world impact of **AI-driven business intelligence platform**
- Presented to industry judges, demonstrating **statistical analysis** and **multivariate ML model** translation to business value