Hunain Raza
Software Engineer

Experience

Full-Stack Engineer – Working Student   **Aug 2024 – Nov 2024**
Migrando GmbH

- 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   **Jan 2024 – July 2024**
Wayfair DE

- 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   **Aug 2022 – April 2023**
Techlabs-cc

- 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.

Personal Info

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Skills

Front-End

HTML	CSS
ReactJS	Bootstrap

Back-End

Django	Flask
Spring Boot	

Database

PostgreSQL	MySQL
MongoDB	

Tools and Methods

Docker	Kubernetes
Apache Kafka	Jenkins
Datadog	Kibana
MS Power BI	Stripe
Git/GitHub	Firebase
Unity	Blender
Photoshop	Illustrator
VS Code	Postman
Unleash	Ngrok

Languages

Python	JavaScript
C#	PHP

Cloud

AWS	GCP

Spoken Languages

English – C1	Deutsch – A1

Web Developer   **Feb 2019 – July 2021**
DNNGraphics

- Architected and deployed **15+** responsive e-commerce websites using **Magento**, **PHP**, and modern frontend frameworks, achieving **98%** cross-browser compatibility and **40%** improvement in mobile user engagement through optimized responsive design and performance tuning.
- Streamlined e-commerce operations by implementing automated inventory management systems and payment gateway integrations across **12** client stores, resulting in **25%** reduction in cart abandonment rates and **30%** faster checkout processing times.
- Enhanced digital presence for **20+** clients through comprehensive **SEO** implementation and brand identity development, delivering an average **60%** increase in organic search traffic and **35%** improvement in conversion rates within 6 months of deployment.
- Managed full-cycle project delivery for **25+** web development projects with **95%** on-time completion rate, utilizing **GitHub** workflows and agile methodologies to coordinate cross-functional teams and maintain code quality standards across all deliverables.

Academic Qualification

Brandenburgische Technische Universität Cottbus, Germany
Masters in Artificial Intelligence
2023 – Present

Iqra University, Pakistan
Bachelors in Computer Science
2016 – 2021

Achievements

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

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