

Shawaiz Shah

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Summary

I have a passion for solving engineering challenges and leveraging technology to address business problems effectively. My focus is on supporting businesses across diverse domains in achieving their goals and driving success.

Experience



Data Scientist

WOW Tech Group

Apr 2021 - Present (2 years 10 months)

- Leading the development of a multi-agent LLM Conversational-AI with a primary focus on orchestrating seamless user-product matching. Responsible for system design, research, ablation studies, and evaluations to benchmark technologies and tools.
- Implementing deployment strategies in an on-premises environment, incorporating concurrency control measures on low-end HPC cluster for optimal performance.
- Led the development of a demand forecasting system using the ARIMA+ algorithm, resulting in a 6-month forecast error of ~6%. The project aimed to optimize supply-chain and to improve budget and growth planning through accurate forecasts of revenue, margin, and sales volume.
- Developed predictive models for temporal activity recognition, object detection, and image classification
- Contributed to the design and implementation of real-time human biofeedback signal classification and vital sign detection application
- Collaborated with cross-functional team to build and deploy cloud based AI prototypes, test environments and data processing pipelines using GCP VertexAI, Apache Airflow, Celery, RabbitMQ and Kubeflow Pipelines.
- Conducted R&D on Computer Vision and signal processing systems using Machine Learning and Deep Neural Network algorithms



Technical Product Owner

WOW Tech Group

Aug 2022 - Feb 2023 (7 months)

- Responsible for planning the development and execution of a software-product roadmap with ~10k daily active users
- Collaborated with a cross-functional team of Product, Design, Development, and Quality Assurance to ensure that the product and feature implementation aligns with the needs and expectations of the customers



Data Science Master Thesis

WOW Tech Group

Aug 2020 - Mar 2021 (8 months)

- Trained and Optimized SOTA Vision Detection Models on custom datasets
- Applied ExplainableAI algorithms to Deep Vision Detection Models for better interpretability



Software Engineer

Artory

May 2019 - Apr 2020 (1 year)

- Working with engineering team on software design and development
- Involved in DevOps tasks including writing unit/integration tests and code reviews
- Participated in sprint planning, grooming and review sessions
- Successfully performed a research spike and built a prototype for image search/retrieval using Reverse Search



Software Engineer

Lakson Business Solutions

Mar 2017 - Oct 2018 (1 year 8 months)

- Responsible for designing, developing and integrating software products and their data processing pipelines
- Assisted technical design process by analyzing business requirements, and facilitating technical feasibility analysis for feature-change request in collaboration with Business Analysis team



Software Engineer

Advance Telecom (AT)

Aug 2016 - Feb 2017 (7 months)

- Introduced KPI reporting mechanism by integrating ecommerce stores with Google Analytics and Facebook Pixel for monitoring product performance (impressions, interaction and conversion rates) and sales (GMV, NMV and Net-to-Value Conversion)



Intern

Pakistan International Airlines

May 2015 - Jul 2015 (3 months)

- Developed and deployed a Requisition and Complaint management system that was to be used within PTC facility



Director Team Creative

SZABIST

Aug 2013 - Mar 2015 (1 year 8 months)

- Recruited in ZABMUN's Executive Council to lead Team Creative
- Collaborated with other teams and successfully organized ZABMUN VII conference, a four day Model United Nations conference which hosted 2000+ delegates

Education



Berlin University of Applied Sciences Berlin (BHT)

Masters, Data Sciences

2018 - 2022



Shaheed Zulfikar Ali Bhutto Institute of Science and Technology

Bachelor of Science - BS, Computer Science, CGPA: 3.53

2012 - 2016

BS Computer Sciences



Aga Khan Higher Secondary School, Karachi

Higher Secondary School Certificate, Pre-Engineering

2010 - 2011

Pre-Engineering - Higher Secondary School Certificate

Licenses & Certifications



Registered Scrum Master™ - Scrum Inc.

RSM-4041082



Certified Scrum Product Owner® (CSPO®) - Scrum Alliance

Issued Jun 2022 - Expires Jun 2024

1599800

Skills

Machine Learning • Data Analysis • Statistical Computing • Data Visualization • Mathematical Modeling
• Database Design • Project Management • Product Development • Research • SQL

Honors & Awards

Chancellor's Honor Roll - SZABIST, Karachi

Dec 2016

University Funded Scholarship - SZABIST, Karachi

Received merit based scholarships for academic performance in semester Fall 2012, Spring 2013, Fall 2013, Spring 2015, Fall 2015

Runner Up IBA ProBattle Challenge - IBA ProBattle '16

Apr 2016

Runner up in web development challenge