

# Shawaiz Shah

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## Summary

Driven by a passion for resolving engineering challenges, I am equipped with the technical acumen to solve complex 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)

- Spearheading the development of scalable multi-agent LLM Conversational-AI solutions, focusing on orchestrating seamless user-product matching. Responsible for system design, research, ablation studies, and evaluations to identify best-in-class technologies and tools for ADAS platforms.
- Executing deployment strategies within an on-premises environment, including advanced 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
- Teamed up with multidisciplinary groups to build and roll out cloud-based AI prototypes, test
- 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)

- Accountable for strategizing the development and deployment of a software product roadmap connecting ~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 - ADAS Data Management

#### 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 - ADAS Development

### Artory

May 2019 - Apr 2020 (1 year)

- Collaborating with the engineering team on ADAS 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 - ADAS Development

### Lakson Business Solutions

Mar 2017 - Oct 2018 (1 year 8 months)

- Tasked with engineering, advancing, and amalgamating software products and corresponding 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 - ADAS Development

### Advance Telecom (AT)

Aug 2016 - Feb 2017 (7 months)

- Initiated KPI reporting frameworks by integrating advanced telematics 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 · Embedded Systems · Data Analytics · Statistical Computing · Data Architecture  
· Database Design · Agile Project Management · AUTOSAR · Research & Development · 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