

FIZZA RAZA

SOFTWARE ENGINEER | RESEARCHER | PREDICTIVE ANALYTICS | GEN AI

- Best across [Cambridge A-levels 2015](#).

CONTACT

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PROFILE

A self-motivated AI researcher & computer scientist with expertise in machine learning, systems research, looking to add value in the agile AI & ML research and tech space.

EDUCATION

2019-2021
ETH Zurich [Zurich, CH]
Computer Science Masters (General Computer Science)

2015-2019
LUMS [LAHORE, PK]
BS Computer Science

TECHNICAL SKILLS

- **Competencies** – Advanced Data Analytics, Applied Machine Learning, Algorithm Design, Network Emulation, Systems Measurement, Web App Dev
- **Data Science/AI/ML** – Recommender Systems, LLMs, NLP
- **Programming** – C/C++, Python, Django, Haskell, JavaScript, HTML/CSS
- **Software Engineering** – Django, Flask, Wordpress, Version control, Product Delivery, System & Solution Design, Deployment
- **Interpersonal Skills** – Leadership, Collaboration, Attention to Details, Communication and Problem Solving, Conflict Resolution, Goal Focus

AWARDS & ACCOMPLISHMENTS

- **Excellence Scholarship and Opportunity Programme (ESOP) Award** at ETH Zurich, [ETH Zurich, 2019-2021].
- **National Management Foundation (NMF) Gold Medal** for securing highest GPA in the graduating cohort [[LUMS, 2015](#)].
- Recipient of **Merit scholarship awarded to top 3 students** across all majors [[LUMS, 2015-19](#)].

PROJECTS & EXPERIENCE

Jan 2025 – May 2025

AI LARGE LANGUAGE MODEL SYSTEMS | LUMS

- Assisted in designing course content on [Large Languages Models \(LLM\) systems](#) and its practical application in business for Master of AI students at LUMS.

Jan 2022 – Present

AUTOMATING HEALTHCARE MANAGEMENT | Freelance

- **Designed and maintained website** for a healthcare clinic based in Lahore
- Designed and implemented **solutions for automated billing and book-keeping** for clinic management.

Apr 2022 – Dec 2022

AUTOMATIC DART SCORING SYSTEM | Freelance

- Developed **dart board detection and scoring module** for different angles and range **detection of camera feeds for sports Analytics** Company using SOTA vision analytics such as [Yolox v4](#) models.

May 2020 – April 2021

IMPACT OF GEO ARC AVOIDANCE ON LEO CONSTELLATIONS | ETH Zurich

- Design and deliver course content on [Large Languages Models \(LLM\) systems](#), [AI Lifecycle](#) and its **practical application in business**.

Aug 2019 – May 2020

HYBRID NON-NEGATIVE MATRIX FACTORIZATION FOR RECOMMENDER SYSTEMS | ETH Zurich

- Implemented a **novel approach** that combines ideas of both **factorization** and **neighborhood based methods**.
- **Experimented, researched** and **obtained** ratings by considering hidden factors for the overall ratings matrix as well as sub-matrices obtained by **clustering users** and **items**.

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June 2017 – June 2019

RESEARCH AND TEACHING | LUMS

- Conducted [research on video streaming optimization for low-end mobile devices](#), developing a measurement platform to analyze session and device-level performance.
- Assisted in teaching undergraduate [Data Structures, Networking, and Calculus](#), managing [large classes \(800+ students\)](#), designing [programming assignments](#), [leading grading](#), and [conducting consultation sessions](#).