

# Mashal Zerak

Computer Science Graduate | AI &  
Software Research Enthusiast

## CONTACT

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## ABOUT ME

I'm a Computer Science graduate who's genuinely curious about how technology can solve real problems. Over the past few years, I've built everything from chatbots and web apps to offline desktop systems—each project teaching me something new about how ideas turn into impact. I love exploring AI, data, and automation, especially when there's room to experiment and push what's possible. My goal now is to contribute to research that uses computational methods to drive innovation and make technology more human-centered.

## EDUCATION

**National University of Modern Languages (NUML) | 2021-2025**

MBachelor in Computer Science

- GPA: 3.49
- Active participant
- Member of NCSS

**Merzakhil Boys High School |2007-2019**

Marks : 95 %

## PROFESSIONAL EXPERIENCE

**IT Technical Support Manager and Reporter | 2024 - 2025**

Key Responsibilities and Achievements

- IT Helpdesk Management
- Technical Issue Resolution
- Daily Reporting
- Problem-Solving and Technical Contributions
- Operational Efficiency Improvements
- Professionalism and Leadership

**Even 2021 – Present t Management, NCSS | 2021 – 2024**

Key Responsibilities and Achievements

- Organized and managed events at the university level.
- Lead event management teams to ensure successful execution of various events.

**Volunteer, Pink Lady Campaign with SHIFA During Degree Foundation | During Degree**

Key Responsibilities and Achievements

- Assisted in organizing and promoting events for cancer prevention awareness.
- Engaged with the community to raise awareness and support for the campaign.

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**SELECTED  
PROJECTS  
(APPLIED  
RESEARCH)**

**NUML Admission Mentor**

link:<https://frolicking-salmiakki-8b8613.netlify.app/>

- NUML Admission Mentor – An AI-powered chatbot system designed to assist prospective students with the admission process at NUML University. The system uses Natural Language Processing (NLP) and Machine Learning (ML) to answer frequently asked questions, provide personalized guidance, and simplify admission-related queries. Built with a ChatGPT-style interface for seamless interaction, ensuring accessibility and user-friendly navigation for applicants.

**Pharmacy Management System**

link:<https://github.com/Mz505/Final-APMS>

- Pharmacy Management System (Akramzada International MHPSS) – A fully functional MERN Stack application built with TypeScript, designed to streamline pharmacy operations and ensure efficient medicine management. The system supports inventory tracking, prescription handling, sales management, and reporting in real time. Developed as a featured and actively running app, it enhances operational efficiency for Akramzada International MHPSS by improving accuracy, reducing manual work, and providing a secure, scalable solution for day-to-day pharmacy needs.

**Explore Afghanistan**

comming soon

- Explore Afghanistan (Mobile App) – A soon-to-be-launched travel companion app designed to make exploring Afghanistan seamless and enjoyable. Built with a focus on user convenience, the app enables tourists to book hotels, reserve transport, hire professional guides, and access AI-powered recommendations tailored to their journey. It also features live maps, real-time weather updates, traffic insights, and location-based information, ensuring safe and informed travel. Currently under development and will be available soon on the Google Play Store.

**NUML Afghan Student Council Website**

link:[afghanstudentcouncil.netlify.app](https://afghanstudentcouncil.netlify.app)

- NUML Afghan Student Council Website – A MERN Stack platform built with TypeScript to serve as the official digital space for the Afghan Student Council at NUML. The website provides event updates, announcements, resources, and student engagement features, offering Afghan students a centralized hub for communication and support. Designed with a modern, responsive UI and backed by a scalable architecture to ensure smooth performance and accessibility across devices.

## **Currency Exchange Desktop System**

link:[https://github.com/Mz505/desktop\\_based\\_currency\\_exchange](https://github.com/Mz505/desktop_based_currency_exchange)

- Electron, React, TypeScript, SQLite
- Developed an offline desktop application for currency exchange businesses with a professional UI and complete data integrity. The system manages daily transactions (Roznamcha), supports multiple currencies, tracks commissions, and maintains an audit trail for all operations. Features include real-time balance calculation, party management, and comprehensive validation to ensure secure and reliable financial records.

## **SKILLS**

### **Soft Skills**

Attention to Detail, Problem-Solving, Communication, Teamwork & Collaboration

### **Languages to speak**

- Pashto(Native)
- Persian(Fluent)
- Urdu(Fluent)
- English(Fluent)

### **Technical Skills**

- Computer programming languages (C++, Java, C#, PHP, Java Script)
- Databases(MongoDB, Supbase, sql/mysql)
- MERN Stack
- Machine Learning & NLP (Python, scikit-learn, NLTK, spaCy)
- Computer Network (MCSE, CCNA)

## **CERTIFICATES**

### **Event Management**

NCSS from NUML

### **Certificate of Appreciation**

Akramzada Interantional MHPSS

### **Pink Lady Campaign**

Shifa Foundation

### **Certification of Participation**

NUML Spring Festival

## **REFERENCES**

Reference will be provided on demand.