

# Mohd Tabish Khan

Lucknow, India

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## Professional Objective

Motivated B.Tech Computer Science student specializing in Data Science and AI with technical expertise in backend engineering and cloud infrastructure. Passionate about distributed systems and performance optimization, demonstrated through the development of a custom Redis-compatible key-value store. Seeking a challenging software engineering role to leverage skills in scalable system design and full-stack development.

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## Skills

- **Languages:** Java, Python, Golang
  - **Backend:** Spring Boot, ExpressJS, REST APIs
  - **DevOps & Tools:** AWS EC2, Docker, Git/GitHub
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## Education

### Shri Ramswaroop Memorial University

B.Tech Computer Science and Engineering (DS + AI)

CGPA: 8.26/10

Relevant Coursework: Object Oriented Programming, Databases, Data Structures & Algorithms, Operating Systems

### City Montessori School

Intermediate, ISC

Percentage: 94.25%

Relevant Coursework: Physics, Chemistry, Mathematics, Computer Science

### City Montessori School

Matriculation, ICSE

Percentage: 97.25%

Lucknow, India

August 2023 – Present

Lucknow, India

April 2021 – March 2023

Lucknow, India

April 2008 – March 2021

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## Position of Responsibility

### e-Sports Club SRMU

Joint Secretary

Barabanki, India

Aug 2025 – Dec 2025

- Organized the Freshers' Induction e-Sports tournament, driving student engagement and initial club recruitment of **80+ students**.
- Managed venue logistics and supervised the presentation workflow for **30 teams** as Core Organizer for the Smart India Hackathon Internal Round.

### Tech Fusion Club SRMU

Assistant Student Coordinator

Barabanki, India

Aug 2023 – Aug 2025

- Orchestrated the **largest** e-Sports tournament at Viveka 4.0, managing logistics for **240+ participants**.
  - Spearheaded the University's **inaugural Hackathon** at Viveka 4.0, establishing judging protocols for **24 teams** from 7 distinct colleges.
  - Directed the debut 'Codex' coding competition at Viveka 3.0, scaling participation to **80 teams**.
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# Projects

## CherryDB | Golang, TCP, RESP, Docker

- Developed a high-performance, Redis-compatible key-value store in Golang, implementing a custom parser for the **Redis Serialization Protocol (RESP)**.
- Engineered a multi-threaded architecture using **Goroutines** and **RWMutex** to handle concurrent client connections with thread-safe access.
- Implemented **Append Only File (AOF)** persistence with a background fsync process to enable crash recovery.
- Optimized network I/O using **buffered writers** and manual byte-by-byte parsing over TCP port 6379.

## Bluprint | ReactJS, React-Flow, ExpressJS, MongoDB, AWS

- Architected and deployed a full-stack roadmap generation tool on **AWS EC2** using Docker containers.
- Placed **4th out of 100** GenAI projects in the BuildFast with AI Hackathon.
- Implemented interactive flowcharts using **React Flow**, enhancing user guidance with embedded code snippets.

## Facial Landmark-Guided Occlusion (FLGO) | Python, PyTorch

- Authored research proposing FLGO, a novel augmentation strategy utilizing **68-point facial landmarks** to mitigate bias in CNNs.
- Trained a **ResNet-18** model on AffectNet, achieving **64.83% accuracy** on occluded test data (+8.51% over baseline).
- Validated robustness with massive F1-score improvements in complex emotion classes: **Anger (+11%)** and **Contempt (+9%)**.

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# Achievements

## Ingenuity 2k24 Winner (2x 1st Place) | Hackathon

October 2024

- Secured **1st Place** (out of 50 teams) for **PrepFlow**, an AI-powered resume tailoring tool.
- Secured **1st Place** (out of 48 teams) for **Recify**, a full-stack recipe aggregation platform.

## Smart India Hackathon 2024 Grand Finalist | ReactJS, FastAPI

September 2024

- Selected among the top **100+ teams** nationwide for the Ministry of Jal Shakti, Government of India.
- Secured **Rank 1** twice in the University-level internal qualifiers (SIH 2023 & 2024).
- Developed a scalable full-stack solution with secure Auth and REST APIs for Problem Statement 1695.