


# MOHD FARHAN JAFRI

Software Engineer - Backend

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## EXPERIENCE

### AqueraLabs Pvt Ltd

07 2024 – Present

*Software Engineer*

*Bangalore, India*

- Collaborated with the **GenAI** team to integrate **large language models (LLMs)** and **generative AI** technologies into the connector development process, reducing time and effort spent on building connectors.
- Utilized **Node.js**, **S3 storage**, and **LLMs** to automate and accelerate the creation of SCIM connectors, improving efficiency and consistency in data handling.
- Designed and built SCIM connector wrappers for multiple **HRSM** and **ATS** applications, including Personio, LCvista, Oracle HCM, BambooHR, Aircall, C2ITSM etc, to standardize data exchange and facilitate integration
- Developed wrappers around existing APIs of HR and ATS systems, transforming their data structures into SCIM-compliant formats, ensuring compatibility with identity management solutions like Okta.

### Hoodlive Internet Private Limited (Hood)

05 2022 – 06 2024

*Software Engineer*

*Gurugram, India*

- Orchestrated the development of a highly scalable backend architecture with a 4-member team, proficiently managing **150k concurrent requests per second** during the SharkTank India event.
- Conceptualised a **Redis bloom filter** in collaboration with a partner, enabling seamless **deletion management**, **scalable operations**, and **rapid hash computations**, optimizing **20% in memory efficiency**
- Architected and engineered a robust video upload feature for leveraging **FFMPEG** library for **compression logic**, to enhance multimedia capabilities, improving user engagement by 10%
- Led the development of key app functionalities such as Direct Messaging, an integrated Credits System with **payment gateway** integration, and the 'Boost Post' feature, contributing to a **15% increase in user retention**.
- Architected the backend infrastructure for the Hood Anonymous Feedback App, leveraging **NestJs** framework to develop Rest-API services, implementing **Redis** for caching and **RDS** for database storage, resulting in a **50% boost in system response time**.
- Implemented **TCP socket connections**, achieving **scalability** and reducing latency by up to **100-200ms for Nest micro-services**.
- Attained a **60% reduction in cloud costs** by implementing a **scalable Redis bloom filter** and optimizing read/write operations on **DynamoDB** and **Neptune databases**.
- Designed an intelligent content search algorithm using **ExpressJs** and **ElasticSearch**, leading to a significant reduction of search latency to **20ms**.
- Constructed the Admin Panel backend and frontend used by own internal 20 member team, using **ExpressJs**, **ReactJs**, **AWS**, **RDS**, **MongoDB**, **ElasticSearch**, and **Redis**.

## PROJECTS

### New Variant Redis Bloom filter | Nodejs, Redis, Redis Pipeline

- Researched and Engineered a **new Variant of Redis Bloom Filter** in a two person team, which supports **Scalability**, **Deletion** and **Fast Hash Computations** in Vanilla Redis and optimising space usage by 20%.

## COURSEWORK / SKILLS

- |              |                 |            |           |
|--------------|-----------------|------------|-----------|
| • Nodejs     | • ElasticSearch | • Neo4j    | • Gen-AI  |
| • TypeScript | • AWS-RDS       | • Redis    | • Docker  |
| • NestJs     | • TypeORM       | • RabbitMq | • AWS-ECR |
| • Python     | • DynamoDB      | • AWS-SQS  |           |

## EDUCATION

### Jamia Millia Islamia

*Bachelors of technology in Electronics and Communication - CGPA - 9.1*

*New Delhi, India*

### St Joseph's College

*Senior Secondary Education - CGPA - 7.2*

*Allahabad, India*