

MUSTANSIR ZIA

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INTRODUCTION

"Premature optimization is the root of all evil, 97% of the time; Yet we should not pass opportunities in that critical 3%." - David Knut

"Good engineers know how to scale, great engineers know when to." - Anonymous.

I have 8 years of experience in writing and designing software systems.

I believe a true 10x engineer is the one who makes 5 of his team members achieve 2x. I believe in strong but empathetic code reviews. I love to take part in architecture discussions and shape the foundations of a product. I aim to build a product that's testable, robust, real-time, highly available and scalable at the same time. Me and my team take great pride in designing systems that cater to millions of users.

FULL TIME EXPERIENCE

Technical Lead

Hubilo

Jul 2021 - Present

Bengaluru, Karnataka, India (Remote)

- We maintain and author microservices and serverless functions that are responsible for critical business functions at Hubilo. This includes payment systems, lead generation and notification pipelines. We primarily use Node.js and TypeScript and there's a mix of NoSQL and SQL databases along with work queuing via Apache Kafka. The services cater to millions of requests per day.
- I was able to help my team scale our services by queuing non critical writes, maintaining a distributed cache and load balancing our database operations among different replicas and shards.
- I designed a URL shortening service which is capable of shortening thousands of URLs per second. With efficient use of distributed caches and edge functions, the response time also stays under 50ms for users around the globe.
- I lead the initiative of making our team achieve over 90% test coverage across the org. This resulted in automated tests and increased maintainability of services.
- I also lead development of a metrics framework using Prometheus and Grafana which helped us to measure service performance and availability.

Senior Software Engineer

Musalleen

Nov 2018 - Jul 2021

Srinagar, J&K, India (Remote)

- I authored & maintained web & mobile apps that were written using React.js, Kotlin & Flutter.
- I lead the development of a monolith API written in Flask & Kotlin. Our team took the initiative of deploying everything inside Docker containers. This helped us setup service orchestration and auto scaling via AWS ECS.
- I made sure all ongoing deployments were blue green which ensured the system didn't incur any downtime because of them.
- I also wrote serverless functions in Kotlin and took care of their deployment to AWS.
- For CI & CD, I set up a Jenkins server on AWS. This helped to reduce feedback loop in all our products since testing and deployment was automated.
- Occasionally, I also used Terraform. This helped to automate the provisioning of infrastructure for our clients.

Software Engineer

KyoLAB

Oct 2018 - Nov 2018

London, United Kingdom (Remote)

- In this brief period, I was responsible for creating a continuous integration & delivery pipeline for Android applications using a scalable version of Jenkins.

Full Stack Engineer

GraphicWeave

Apr 2016 - Nov 2018

Srinagar, J&K, India

- Here, I was responsible for designing & authoring distributed & highly available systems from the ground up. We wrote these in Node.js & Golang.
- I also contributed heavily & lead development of web & mobile apps using React.js, React Native and Kotlin.

PART TIME EXPERIENCE

Technical Lead

Meego

Oct 2017 - Mar 2018

Chandigarh, India

- I was the lead developer who designed & engineered this project. During my 5 months tenure with Meego, I wrote all of its API in Node.js, almost all of its mobile apps in React Native & Kotlin.
- I also took care of all the infrastructure and deployed all the services to the cloud using Docker.

Software Engineering Consultant

Musalleen

Aug 2021 - Mar 2022

Srinagar, J&K, India

- I collaborated with the engineering team to solve their pain points. This role was a mix of things where I provided insights & advice on how to strengthen the overall engineering process & debugged hard to solve issues.
- I frequently did code reviews and as well as coached my peers.

COMMUNITY EXPERIENCE

Open Source

GitHub

- I'm also an author and lead maintainer of [17 open source projects](#) on GitHub.
- My open source packages have been downloaded more than 35k times on npm and pub.dev.

Blogging

Personal Blog

- I also happen to be an author of tech related blogs at [mustansir.dev](#) and medium.

Problem Solving

LeetCode

- I have solved over 150 questions on [LeetCode](#) and my submissions are among the top 20% on LeetCode.

SKILLS & PROFICIENCY

Languages	JavaScript, TypeScript, Golang, Java and sometimes in Python, Dart, Kotlin
Databases	MySQL, PostgreSQL, MongoDB, Cassandra, ElasticSearch, and Neo4j
Backend	Redis, Memcached, Kafka, RESTful, GraphQL, WebSockets, gRPC
Platform	AWS, Linux, Docker, Terraform, Vercel, CDN
Client side	React.js, Next.js, Vue.js, React Native, Flutter
Testing	TDD, Jest, Cypress, Testing Library
Automation	Jenkins, CircleCI, GitHub Actions
Instrumentation	Prometheus, Grafana, ELK

EDUCATION

Bachelors of Technology, University of Kashmir

Oct 2011 - Jun 2016

Major: Electronics & Communication CGPA: 7.9

CERTIFICATIONS

Oracle Certified Java Professional

Jan 2016

Java SE 6