Mukul Singh

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WORK EXPERIENCE

Senior Software Engineer, Info Edge, Noida

Apr. 2025 - Present

- Designed and developed an in-house tool to quickly create MCP servers from any API within minutes, with features like, tool execution monitoring, server access control, and team management
- Built an in-house platform to create AI agents, with capabilities driven by MCP tools, prompts, and resources
- Designed and developed Job Agent product providing automated applications on jobs matching user profile

Software Engineer, Info Edge, Noida

Jul. 2023 – Mar. 2025

- Designed and developed subscription payment service, along with a transaction timeline for complete payment transaction lifecycle visibility
- Upgraded job search services from Java 8 to Java 21, leveraging virtual threads resulting in a 3x improvement
 in system concurrency and reducing server costs by 25%
- Designed and deployed a rule-based scraping detection system, reducing naukri data scraping by 90%
- Implemented a delay queue library for kafka enabling scheduled distributed processing of events
- Developed and launched Branded Job Description and Naukri Talent Cloud product on Naukri for 50M users
- Designed and developed a centralised authentication system to allow cross platform features on various Info
 Edge recruiter platforms
- Designed and implemented a distributed locking library using Aerospike to guarantee single execution of cron jobs across multiple service instances

Software Engineer Intern, Info Edge, Noida

Jan. 2023 – Jul. 2025

- Created a no-code platform to aggregate API responses from various micro-services with a self service user interface for developers to onboard aggregations according to their use case.
- Optimized parallel execution of multiple interdependent services through topological sorting of service DAGs
- Reduced development time for new features by providing a no-code solution for data aggregation.

SKILLS

- Programming Languages: Java, Javascript, Typescript, Python, SQL
- Technologies: Spring Boot, React.js, MySQL, Kubernetes, Docker, Aerospike, Kafka, Airflow
- Other: Distributed Systems, SDLC, Full-Stack Development, High-Level Design, Low-Level Design, Linux, Prompt Engineering, Context Engineering, RAG, Agentic AI, Model Context Protocol(MCP)

PERSONAL PROJECTS

AI Expense Tracker | Spring Boot, React.is, Prompt Engineering, MCP

June, 2025

- Developed an **AI agent** that processes emails containing bank transactions, credit card transactions, and statements to track expenses. The **MCP server** allows users to chat with their expenses and find insights.
- Provides automated expense tracking through a beautiful open source self-hosted application.

Factory Floor QA | React.js, Django, Server Sent Events

June, 2021

- Created a full-stack application to track quality of manufactured products in textile factories.
- Powered by an app for inputs, and backend data aggregations, provided a real-time view of all production lines.

EDUCATION

University of Delhi, Department of Computer Science

June, 2023

M.Sc. Computer Science Delhi