

Moksh Verma

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SUMMARY

Backend Engineer with 5+ years of experience building distributed systems at scale — from unifying 380M+ user identities at Expedia to recommendation engines serving 50M DAU at Gaana. Fluent in AI-augmented development workflows and experienced across the full stack of backend, data, and ML engineering.

WORK EXPERIENCE

Software Development Engineer - II | Expedia Group | 📍 Gurugram

Apr 3, 2024 – Present

- **Identity Unification at Scale:** Merged **380M+ multi-brand user profiles** into a unified identity system, streamlining checkout and eliminating redundant workflows across Expedia, Hotels.com, and Vrbo.
- **Zero-Downtime Streaming Migration:** Migrated Tier-1 Kafka infrastructure to Confluent Cloud (OSP) with **zero downtime and zero event loss**, designing a custom dual-deployment KStreams architecture.
- **Cost Optimization:** Reduced cloud costs by **\$200K+/year** by redesigning ETL pipelines from scratch and removing third-party dependencies.
- **Legacy Modernization:** Decomposed a core monolith module into an independently deployable **Kotlin + Postgres** microservice, enabling faster release cycles, isolated fault boundaries, and independent scalability.
- **AI-Augmented Development:** Leveraged AI-assisted workflows (Claude Code, Cursor, Copilot) to accelerate delivery **by ~30%** across complex migrations and large-scale identity unification.

Software Developer | Radio Mirchi | 📍 Noida

Aug 1, 2022 – Mar 28, 2024

Built backend services powering Radio Mirchi's digital platform — serving Podcasts, Videos, Articles, and Shorts.

- **Distributed Systems:** Increased user **engagement by ~30%** by designing a scalable Automated Push Notification module using Spark and Kafka.
- **Security & Authentication:** Reduced login time and errors **by 50%** by developing a secure, seamless login handoff from mobile app to webview using JWT tokens.
- **Monetization Engineering:** Increased business revenue **by 10%** across app and web platforms by building a high-performance Ads Rule Engine using **Redis and MongoDB**.

Software Developer | Gaana (Acq. by Radio Mirchi) | 📍 Noida

Aug 1, 2021 – Mar 28, 2024

- **Personalization & Scale:** Boosted music playout from the homepage by **40%** for **50M Daily Active Users** by designing personalized recommendation algorithms using machine learning models.
- **Performance Engineering:** Reduced API response time **by 35%** by implementing Aerospike caching strategies at critical, high-latency points.

- **R&D:** Solved complex recommendation challenges (Cold Start Problem, Artist Similarity) through POCs that shipped into the production Recommendation module.

Junior Software Engineer | EPAM Systems | 📍 Pune

Feb 2, 2021 – Jul 31, 2021

- **API Design:** Developed secure RESTful APIs utilizing **Singleton and Factory design patterns**, improving data security and system scalability.

PERSONAL PROJECTS

- **Auto-Terminal:** [Link](#) | **Python, AI, LLM** — A command-line tool that converts natural language to shell commands using AI.
- **Song Hit Predictor 5000:** [Link](#) | **Python, Machine Learning, NLP** — A tool to predict whether a song has the potential to take off.

EDUCATION

Bachelor of Technology in Computer Science, B.Tech (CSE)

Guru Gobind Singh Indraprastha University, Delhi, India | 2016 - 2020

TECHNICAL SKILLS

Category	Skills
Languages & Frameworks	Java, Kotlin, Python, Spring Boot
Databases & Caching	MySQL, Postgres, MongoDB, Cassandra, Redis, Aerospike, Elasticsearch, MS SQL, Hive
Streaming & Data	Apache Kafka, KStreams, Apache Spark, Confluent Cloud
Cloud & Infrastructure	AWS, Vault, Docker, Kubernetes
AI & Dev Tooling	Claude Code, Cursor, GitHub Copilot, Git
Methodologies	Agile, TDD, CI/CD
