

Manas Singh

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EXPERIENCE

Backend Engineer (SDE-I) Zupee

Jun 2025 – Present
Gurugram, India

- Built a **scalable rewards engine** leveraging **Redis caching** and asynchronous job queues to reduce latency by 30%.
- Deployed real-time communication modules using **WebSockets & Redis Pub/Sub**, achieving sub-100 ms message delivery.
- Optimized **microservices architecture** handling real-time gaming transactions for thousands of concurrent players.

Software Developer Midas Consulting

May 2024 – Jun 2025
Noida, India

- Architected a **multi-tenant SaaS backend** with tenant-isolated databases and role-based access control.
- Automated data aggregation using **Python + PostgreSQL pipelines**, improving analytics throughput by 65%.
- Designed REST APIs and **integrated CI/CD pipelines** using **Jenkins + Docker** for zero-downtime deployments.
- Built AWS infrastructure from scratch — EC2, Load Balancers, **Auto Scaling** Groups, and CloudWatch-based monitoring.

Web Developer Webloop Infotech LLP

Mar 2021 – Apr 2022
Gurugram, India

- Developed **REST APIs** using **Laravel (PHP)** and integrated them with **MySQL** and **Hadoop** for data storage and distributed processing.
- Added caching layers and database indexing, improving API response times by around 40%.
- Containerized backend services using **Kubernetes (K8s)** to streamline deployment across environments.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript (Node.js), Python, SQL, Java, Go (learning)
Backend Frameworks	Express.js, NestJS, FastAPI, Spring Boot
Databases	PostgreSQL, MongoDB, MySQL, Redis, Aerospike
Cloud & DevOps	AWS (EC2, ELB, S3, Lambda), Docker, Kubernetes, Jenkins, Devtron
Architecture & Systems	Microservices, Message Queues (Kafka, RabbitMQ, SQS), REST APIs, WebSockets
Monitoring & Tools	New Relic, Coralogix, Git, CI/CD

PROJECTS

Distributed Resume Parser — Designed a backend service for parsing resumes asynchronously using Node.js, RabbitMQ, and MongoDB, scaling to 10K+ documents/day. ([Try it here](#))

Boolean Search Engine — Built a backend service with a custom boolean query parser and in-memory search indexing using Java, Python, and Node.js, supporting AND/OR/NOT operations. ([Try it here](#))

Chesspawn (Real-Time Game Server) — Built a low-latency multiplayer chess server using **WebSockets** and Redis Pub/Sub, achieving 99.9% uptime under 1000+ concurrent sessions. ([Play here](#))

EDUCATION

Master of Computer Application, Amity University
Bachelor of Computer Application, GGSIPU

2023 – 2025
2018 – 2021