

# Manas Singh

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## EXPERIENCE

<b>Backend Engineer (SDE-I)</b> Zupee	Jun 2025 – Present <i>Gurugram, India</i>
<ul style="list-style-type: none"><li>Built a <b>scalable rewards engine</b> leveraging <b>Redis caching</b> and asynchronous job queues to reduce latency by <b>30%</b>.</li><li>Deployed real-time communication modules using <b>WebSockets &amp; Redis Pub/Sub</b>, achieving sub-100 ms message delivery.</li><li>Optimized <b>microservices architecture</b> handling real-time gaming transactions for thousands of concurrent players.</li></ul>	
<b>Software Developer</b> Midas Consulting	May 2024 – Jun 2025 <i>Noida, India</i>

- 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

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

## PROJECTS

<b>Distributed Resume Parser</b> — Designed a backend service for parsing resumes asynchronously using Node.js, RabbitMQ, and MongoDB, scaling to 10K+ documents/day. ( <a href="#">Try it here</a> )
<b>Boolean Search Engine</b> — 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. ( <a href="#">Try it here</a> )
<b>Chesspawn (Real-Time Game Server)</b> — Built a low-latency multiplayer chess server using WebSockets and Redis Pub/Sub, achieving 99.9% uptime under 1000+ concurrent sessions. ( <a href="#">Play here</a> )

## EDUCATION

<b>Master of Computer Application</b> , Amity University	2023 – 2025
<b>Bachelor of Computer Application</b> , GGSIPU	2018 – 2021