

# Manik Singhal

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## Professional Summary

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Software Engineer with **2+ years of experience** building **scalable, distributed backend systems** in **enterprise environments**. Strong foundation in **data structures, algorithms, and system design**, with hands-on experience developing **RESTful APIs, containerized microservices, and event-driven architectures**. Proven ability to **optimize performance, improve system reliability, and deliver production-ready solutions** in cross-functional teams.

## Education

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**University School of Information, Communication and Technology** Aug 2019 - Jun 2023

B.Tech. in Electronics and Communication Engineering

- CGPA: 8.95/10.0

## Experience

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**Associate Consultant, Oracle – Noida, UP** June 2023 – Present

- Developed and enhanced **secure, scalable CRM modules** within **Oracle DBX**, delivering **high-performance backend systems** used by thousands of users.
- Built **RESTful APIs** and backend services using **Node.js** and **Oracle JET**, integrating with enterprise systems such as **OEP, BRM, PDC, and UIM**.
- Migrated legacy PHP modules to **Node.js**, reducing **API latency by 60%** and significantly improving **request throughput**.
- Worked with **Docker** for containerizing services and ensuring **consistent deployments** across environments.
- Implemented **Prometheus** and **Fluentd** monitoring from proof-of-concept to production, enabling **real-time observability** and faster **issue diagnosis**.

## Projects

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**FlowOps [GitHub]** 2025

- Designed and developed **FlowOps**, a **backend system** focusing on **reliability, scalability, and service coordination**.
- Built **modular REST APIs** using **Node.js** with clean separation of concerns, integrating **Kafka** for **asynchronous event-driven processing** and **Redis** for **fast in-memory caching**.
- Applied **system design principles** to structure components, manage **data flow**, and handle **failures gracefully**.
- Added **logging, metrics, and basic monitoring** to improve **observability, debugging, and overall system efficiency**.

## Skills & Technologies

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**Programming:** JavaScript, Node.js, Shell Scripting, C++, SQL

**Tools & DevOps:** Docker, Prometheus, Fluentd, Postman, Git

**Frameworks:** Express.js, React, Oracle JET

**Other:** Distributed Systems, REST APIs, Microservices, Event-Driven Architecture (Kafka), Caching (Redis), Agile, System Design, DSA

## Certifications

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- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate**  
*AI, ML, Generative AI, and OCI AI Services*  
Credential Verification