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India

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OMKAR SONAWANE

Software Engineer (SDE-1)

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Backend-focused Software Engineer with 2 years of experience building scalable, reliable, and production-ready systems using **Node.js**, distributed backend patterns, and **caching**. Strong foundation in computer science fundamentals, system design, and high-performance API development. Demonstrated excellence in problem-solving with **750+ LeetCode** problems solved, covering graphs, dynamic programming, and advanced algorithmic patterns. Skilled in designing asynchronous pipelines, optimizing performance, and delivering end-to-end backend features for real-world products. Seeking an **SDE-1 / Backend Engineer** role at a product-based company.

SKILLS

Backend Node.js, Express.js, REST APIs, MongoDB, PostgreSQL, WebSockets, JWT

Distributed Systems Caching, Queues, Async Workers, Fault Tolerance, Scalability

DevOps & Tools Docker, GitHub Actions, Redis, Linux, CI/CD Pipelines, Puppeteer

Frontend (Secondary) Javascript, React.js, Next.js, TypeScript, Redux, HTML5, CSS3, Tailwind, Vite, Webpack

Core CS Data Structures & Algorithms, System Design, OS, DBMS, Networking

EXPERIENCE

Software Engineer

Ripples, Bengaluru

Dec 2024 – Present

- Built and scaled a reward and loyalty backend using **Node.js** and **Redis** caching, improving redemption performance and reliability across high-frequency user interactions.
- Developed an asynchronous instant reward pipeline using background workers and optimized caching, reducing end-to-end processing latency by **60%**.
- Implemented a secure UGC ingestion microservice integrated with Meta APIs, enabling automated content moderation and compliance-focused workflows.
- Re-architected a Shopify theme app with asset optimization, lazy loading, and caching, reducing load time from **3.2s to under 1s**.
- Engineered backend services for a modular analytics dashboard using pre-computed summaries and optimized queries, improving reporting performance by **40%**.

Project Engineer

Crio.do, Bengaluru

Jul 2023 – Nov 2024

- Designed and optimized backend data pipelines, reducing processing time from **60 minutes to 9 minutes (85% faster)** through parallelization and optimized batching.
- Built a fault-tolerant automation system using **Puppeteer** to scrape **20,000+ job listings**, with retry logic, captcha-handling, and anti-bot bypass techniques.
- Developed a production-ready full-stack job lifecycle platform managing candidate onboarding, job postings, and placement workflows for thousands of active users.
- Implemented a secure role-based admin console with workflow automation for eligibility checks, job postings, and candidate-job matching.
- Built resilient queue-based workflows with structured logging and automated retries to ensure continuous data processing with minimal operational failures.

PROJECTS

Real-Time Chat App — Node.js, Socket.IO, MongoDB, JWT

GitHub

- Built a real-time chat backend with WebSockets, typing indicators, and read receipts.
- Implemented JWT auth and secure message channels for reliable delivery at 200+ concurrent users.
- Optimized event handling and MongoDB storage achieving sub-150ms message latency.

EDUCATION

Bachelor of Computer Applications (BCA)

Uttaranchal University, Dehradun

CGPA: **9.1**

- Coursework: Data Structures & Algorithms, Operating Systems, DBMS, System Design.
- Applied academic concepts in backend engineering and production automation projects.

ACTIVITIES

- Algorithmic Excellence:** Solved **750+ LeetCode problems**, demonstrating strong problem-solving ability across arrays, graphs, dynamic programming, and system design related patterns.
- Continuous Learning:** Actively improving skills in system design, distributed systems, and performance optimization through hands-on projects and consistent weekly practice.