

Saurabh Yadav

Full Stack Engineer

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SUMMARY

Full Stack Engineer with hands-on experience building end-to-end web applications across frontend and backend. Proficient in React for responsive UI development and Node.js, Go, and Python for scalable REST APIs and distributed backend systems. Experienced with PostgreSQL, MongoDB, Redis, Docker, and AWS in production environments. Comfortable owning features from design collaboration through CI/CD deployment, with a strong focus on performance, reliability, and clean architecture.

EXPERIENCE

RelicWave Technologies Jan 2026 – Present

Full Stack Engineer Intern Mumbai, India

- Built and shipped full stack financial modules, React dashboards for commission tracking and regional sales reporting, backed by secure REST APIs in Node.js.
- Designed automated payout and wallet management APIs with PostgreSQL, optimizing query performance and indexing to cut reporting latency by 40%.
- Implemented transaction monitoring and email notification pipelines, reducing manual operational workload by 60%.
- Containerized services with Docker and maintained CI/CD pipelines to streamline deployment across environments.

Fliq AI Apr 2025 – Jun 2025

Backend Developer Intern Remote

- Designed and deployed production REST APIs in Go and Node.js, serving 1,000+ concurrent users.
- Reduced API latency by 35% through Redis caching and targeted database query optimization.
- Created OpenAPI/Swagger documentation covering all backend service contracts.
- Refactored legacy monolithic services into a modular backend architecture, improving maintainability and enabling independent deployments.

PROJECTS

NebulaRealtime | Node.js, TypeScript, React, Redis, PostgreSQL, WebSockets, Docker 2026

- Built a horizontally scalable realtime multiplayer backend supporting 5K concurrent WebSocket connections, with a React-based admin dashboard for live connection and matchmaking monitoring.
- Implemented ELO-based matchmaking with Redis sorted sets and distributed locks ensuring deterministic pairing across multiple server instances.
- Designed server-authoritative tick-based simulation with event-sourced match replay and batch persistence to PostgreSQL.
- Instrumented with Prometheus metrics and structured logging; benchmarked at 48K+ HTTP req/s using autocannon.

Go JSON Database Engine | Go, Concurrency, System Design 2025

- Built a concurrent key-value database with atomic writes and thread-safe operations using Go concurrency primitives.
- Designed modular storage architecture supporting extensible indexing and scalable query operations.
- Applied systems-level concepts: memory safety, concurrency control, and storage abstractions.

Chemical Equipment Parameter Visualizer | Python, Django, React, Docker2025

- Developed a full stack analytics platform, Django REST backend with a React frontend for industrial equipment parameter analysis.
- Implemented CSV normalization pipelines and automated PDF report generation. Live at chemical-equipment-visualizer-mauve.vercel.app.

TECHNICAL SKILLS

Frontend: React, TypeScript, JavaScript, HTML/CSS, Responsive UI

Backend: Node.js, Fastify, Go, Django, FastAPI, REST APIs, WebSockets, JWT

Databases: PostgreSQL, MongoDB, Redis, SQLite, MySQL

Infrastructure: Docker, Kubernetes (fundamentals), AWS (EC2, S3), CI/CD, Linux, Git

Systems: Distributed Systems, Microservices, Event-Driven Architecture, Caching, Load Testing

Languages: Go, TypeScript, Python, JavaScript, SQL

EDUCATION

ITM Skills University2024 – 2028

*B.Tech in Computer Science | CGPA: 9.5*Mumbai, India

ACHIEVEMENTS

- Smart India Hackathon 2025 Finalist (College Level)
- Selected for Headstarter AI Fellowship
- Multiple hackathon wins and competitive programming placements