

Sumeet Umbalkar

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Summary

Software Engineer specializing in real-time architecture, scalable infrastructure, and AI microservices. Experienced in optimizing server performance, distributed systems, and open-source development using Node.js, Go, Docker, and the MERN stack.

Experience

Lead Engineer - EpicTambola (Freelance) - <https://epictambola.com/>

Feb 2025 – Sept 2026

- Architected a real-time multiplayer gaming platform supporting high-density concurrent rooms and custom rules using Node.js, React, and Socket.IO.
- Structured room, ticket, and state operations with map/set data structures, securing $O(1)$ time complexity for instant claim validations without blocking the event loop.
- Executed high-concurrency load testing (500 active players/room during simultaneous actions), establishing a production ceiling of 2–3 fully loaded rooms (1,000–1,500 connections) per CPU core at 1.4 GB RAM.

Software Engineer – Labgineer – <https://labgineer.com/>

Aug 2025 - Present

- Own and operate Labgineer, an engineering project platform, building and maintaining its full-stack ecommerce system using the MERN stack with custom admin dashboards.
- Designed, built, and commercialized 14+ end-to-end IoT and software systems, handling everything from hardware circuit design to firmware and web integration.
- Engineered complex hardware-software systems, including a bidirectional G2V/V2G EV power controller and an automated dry, wet, and metal sorting system.
- Developed specialized embedded solutions, including optical transceivers for laser-based free-space communication and GPS/cellular location tracking hardware.

Projects

PayGuard (OpenSource) – <https://payguard.sumeet.app/>

Sept 2026

- Engineered an open-source payment security SDK using distributed idempotency locks and raw cryptographic webhook verification to eliminate double-spend bugs and handle dropped network requests.
- Built a background reconciliation engine and policy evaluation layer to intercept AI agent transactions, enforcing spending limits, behavioural risk checks, and human-in-the-loop approvals.

RivalFree (Hackathon) – <https://rivalfree.sumeet.app/>

Oct 2026

- Architected and deployed RivalFree, an autonomous multi-agent competitive intelligence SaaS platform using Node.js, Express, React, and Gemini via LangChain; integrated SerpApi to ground LLM reasoning in live web search data and eliminate hallucinations.
- Designed a real-time event-driven orchestration pipeline using Socket.IO to stream agent reasoning state changes to the UI, containerized the microservices using Docker Compose, and deployed on AWS EC2 behind Nginx reverse proxy configured for WebSocket upgrading and SSL termination.

Skills

JavaScript, TypeScript, Go, C++, NodeJs, Express, Mongodb, MongooseJs, Redis, BullMq, Socket.io, Joi, Git, Docker, Linux, AWS, DigitalOcean.

Education

Master of Computer Application

Expected 2028

Vellore Institute of Technology (Online)

Bachelor of Computer Application

July 2023 – May 2026

Tilak Maharashtra Vidyapeeth – 7.9 CGPA