

KARTHIK SHANBHAG

Software Development Engineer

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Summary

Software Development Engineer with **2+ years of experience** building scalable SaaS systems, real-time applications, and AI infrastructure platforms. Strong expertise in NestJS, PostgreSQL, Redis, event-driven architectures, and full-stack development using React & Next.js. Proven track record of independently designing, developing, and deploying complete production web platforms from scratch.

Core Skills

Backend Development, Full-Stack Development, Event-Driven Architecture, REST APIs, Real-Time Systems, Database Optimization, AI Model Infrastructure, Cloud-Native Applications

Professional Experience

Software Engineer — Qwodel Jan 2026 – Present

- Built Qwodel.com, an artifact-first AI model quantization orchestration platform for large-scale quantization and optimization of AI models.
- Designed and implemented the core orchestration engine supporting multi-GPU workflows, fused kernels, runtime estimation, accuracy tracking, and deterministic pipelines.
- Developed infrastructure for generating portable, versioned, audit-ready model artifacts deployable across cloud, on-prem, or edge environments.

Software Engineer — Redrhynos Jan 2026 – Present

- Developed MVPSuites.com, a complete end-to-end event ticket booking platform for premium VIP tickets and suites (concerts, sports, theater, etc.).
- Built full backend, frontend, user flows, booking logic, and infrastructure from scratch, enabling users to browse events and complete secure online bookings.

Software Engineer — Anmaya.in Jan 2026 – Present

- Independently designed and developed a full remote laboratory platform adopted by multiple engineering colleges for Electronics & Communication Engineering students.
- Students compile Verilog code on server infrastructure that executes on real Raspberry Pi hardware with live video feed of LED outputs for real-time hardware visualization.
- Handled complete full-stack development, server-side compilation pipeline, hardware integration, and real-time video streaming.

Software Engineer — UniCourt India, Mangalore Aug 2024 – Present

- Core member of the engineering team building UniCourt's enterprise API SaaS platform for litigation data, analytics, and AI-powered docket extraction from 4000+ US courts.
- Designed and developed scalable backend services using NestJS (v11), PostgreSQL, Redis, RabbitMQ, Bull queues, and NATS for high-throughput event processing.
- Optimized database queries and API logic, reducing average API response times by **80%**.
- Built and maintained product-facing UI components using Next.js and Shadcn.
- Worked extensively on event-driven architectures with NATS JetStream and RabbitMQ in Kubernetes environments.
- Designed Redis-based real-time systems including TTL-based connection tracking, WebSocket lifecycle management, Lua scripts, and distributed locking.

Education

Bachelor of Engineering — Computer Science and Engineering

SMVITM, Bantakal

2024

Technical Skills

JavaScript, TypeScript, Python — React, Next.js, Shadcn — NestJS, Node.js — PostgreSQL, Redis, MongoDB — RabbitMQ, NATS, Bull — Docker, Kubernetes