

NITISH KUMAR YADAV

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Summary

Full Stack Developer with a strong focus on building scalable, AI-integrated web applications and high-performance microservices. Specializing in modern TypeScript ecosystems and cloud-native architectures, with hands-on experience in RAG pipelines, real-time event-driven systems, and open source contributions.

Technical Skills

Programming & Libraries: TypeScript, JavaScript, Python, C++, HTML, CSS, React, Next.js, Node.js, Express, Tailwind CSS, ShadCn.

Databases & ORMs: MySQL, PostgreSQL, MongoDB, DynamoDB, Prisma, Drizzle, Mongoose, Redis, Supabase, Vector Databases (Qdrant, Pinecone).

Cloud & DevOps: AWS (EC2, S3, DynamoDB, Lambda), Docker.

AI & NLP: Hugging Face, OpenAI & Gemini APIs, RAG, LangChain, Embeddings, Prompt Engineering.

Realtime, Tools & Security: WebSockets, Git, GitHub, Postman, Jest, REST APIs, Webhooks.

Experience

Macnewtab

Jan 2025 – Present

Open Source Contributor | TypeScript, React

- Resolved complex UI drag-and-drop offset bugs on scaled screens by normalizing raw pointer coordinates against CSS zoom scales, restoring precise window positioning. [\[PR #21\]](#)
- Fixed a critical date-parsing bug in the Google Calendar integration that caused events to render on incorrect days by strictly enforcing local timezone interpretation over default UTC. [\[PR #18\]](#)
- Implemented cross-tab state synchronization for a focus timer utilizing localStorage and Web APIs, ensuring seamless persistence without unnecessary write cycles. [\[PR #9\]](#)

Projects

E-Shop | *Multi-Vendor Microservices Platform*

[GitHub](#) | [Live](#)

Next.js, Node.js, MongoDB, Prisma, Kafka, Redis, TensorFlow.js, Stripe, Docker

- Architected a multi-vendor platform with 10+ Node.js microservices in an Nx monorepo, enabling independent deployment and clear service boundaries.
- Engineered an event-driven Kafka pipeline for real-time analytics and messaging, designed with partitioned topics for horizontal scalability.
- Developed three Next.js UIs (Consumer, Seller, Admin) and integrated a TensorFlow.js recommendation engine to surface personalized product listings.
- Containerized the full-stack infrastructure (APIs, UIs, DBs) with Docker Compose, enabling consistent local and production environments.

Flashbot | *AI Chatbot & Knowledge Graph SaaS*

[GitHub](#) | [Live](#)

Next.js, PostgreSQL, Drizzle, OpenAI, Scalekit, Docker, AWS EC2

- Architected a multi-tenant SaaS platform with custom embeddable AI widgets, ensuring strict data isolation across external domains.
- Engineered an OpenAI-powered RAG pipeline grounded in scraped business knowledge, significantly reducing hallucinations compared to vanilla prompt-based responses.
- Designed a PostgreSQL & Drizzle ORM backend with Scalekit RBAC, with query optimization targeting sub-100ms response times.
- Containerized and deployed on AWS EC2 with environment-based configuration, ensuring reliable uptime for a publicly accessible API.

Certifications

- Claude Code in Action** | *Anthropic Education*
- Claude 101** | *Anthropic Education*

Achievements

- Problem Solving:** Solved 700+ algorithmic problems across LeetCode, Codeforces, AtCoder, and GeeksforGeeks, developing strong proficiency in data structures and complex algorithms.
- Analytical Strategy:** Achieved a peak Rapid rating of 1608 on Chess.com (ranking in the top 15% of global players), demonstrating strong strategic planning and pattern recognition skills.

Education

NMIMS CDOE (Centre for Distance and Online Education)

June 2021 – June 2024

Bachelor in Business Administration