

Nitin Panwar

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer with **5+ years** of experience owning products end to end across web, mobile and backend, from customer-facing platforms and RAG-powered AI products to real-time data pipelines (Kafka, MQTT).

SKILLS

Languages: TypeScript, JavaScript, Python, Go, Rust, Swift, C++

Frontend & Mobile: React, Next.js, Vue.js, React Native, Expo, SwiftUI, Redux, Tailwind CSS, Material UI, D3.js

Backend: Node.js, NestJS, GraphQL, REST APIs, FastAPI, WebSockets

Databases: PostgreSQL, TimescaleDB, MongoDB, MySQL, Redis, Pinecone

Streaming & Cloud: Kafka, MQTT, Docker, Kubernetes, Terraform, AWS (EC2, S3, RDS, Lambda, IAM), GCP, CI/CD

AI & LLM: LangChain, LangGraph, RAG pipelines, MCP servers, prompt engineering

WORK EXPERIENCE

Software Engineer

Sep 2025 - Present

AMPD Energy

Remote (Hong Kong)

- Architected and built **AMPD PQ** from scratch, a product qualification platform where customers upload consumption data and evaluate CO2 reduction and savings, cutting the customer evaluation cycle from **days to under 5 minutes**.
- Developed **AMPD Charlie**, a RAG-powered AI assistant that cut average support resolution time by **40%**.
- Own the customer **mobile app** end to end (**React Native, Expo**): monitoring, live power flow, push notifications.
- Built and maintained real-time data ingestion pipelines using **Kafka** and **MQTT** for high-throughput energy device telemetry.
- Developed backend services using **NestJS**, **GraphQL** and **TimescaleDB** for energy device data and analytics.
- Tech stack: Kafka, MQTT, NestJS, Vue.js, GraphQL, TimescaleDB, React Native, Docker, Kubernetes, AWS, Terraform.

Senior Full-Stack Engineer (*promoted from Full-Stack Software Engineer II*)

Mar 2023 - Aug 2025

BITCS

Noida, India

- Architected and led **Raven**, an internal issue management system, cutting mean time to resolution by **40%**.
- Increased test coverage to **75%** across core modules, reducing production bugs and improving release confidence.
- Added frontend caching, **reducing API call latency by 30%** and raising the Lighthouse score by **25 points**.
- Built a company-wide real-time notification system on **WebSockets**, improving cross-team incident response.
- Redesigned schemas, indexes and queries, **reducing average query execution time by 40%**.
- Mentored **4 junior engineers** through structured code reviews and pairing sessions.
- Tech stack: React, TypeScript, GraphQL, AWS (S3, EC2, RDS, CloudWatch), PostgreSQL, Docker, Kubernetes.

Software Development Engineer I

Dec 2021 - Mar 2023

Codersera

Noida, India

- Built features for **Codersera**, a talent marketplace matching companies with vetted remote developers.
- Developed **REST APIs** and data pipelines in **NestJS** and **PostgreSQL** and the **React** frontend, deployed on **AWS**.

Frontend Developer Intern

Aug 2021 - Nov 2021

Sapio Analytics

Mumbai, India

- Developed an interactive analytics dashboard with real-time data visualization using **D3.js** and **Plotly.js**.
- Implemented a geospatial map feature using **Mapbox** for state-wise data exploration.
- Improved initial page load time by **35%** through code splitting, lazy loading and bundle optimization.

PROJECTS

Prompt-o-mato: Focus and Wellbeing Companion for macOS

promptomato.app

- macOS notch companion with reminders and focus sessions; flags distractions with a local **on-device LLM** (Qwen 2.5 3B).
- Tech stack: Swift 6, SwiftUI, on-device ML.

Dicta: AI Speech-to-Text for macOS

github.com/nitintf/dicta

- Native macOS app that turns speech into polished text with AI, fully on-device: no cloud, subscription or usage limits.
- Tech stack: Rust, Tauri, TypeScript, on-device ML.

EDUCATION

Meerut Institute of Engineering and Technology

Bachelor's in Computer Science

Meerut, India