

# NITIN PANWAR

Software Engineer | nitinpanwar0802@gmail.com | linkedin.com/in/nitin-panwarr | nitin.sh

## PROFESSIONAL SUMMARY

Versatile Software Engineer with **4+ years** of experience delivering high-impact web, mobile, and backend systems. Skilled in AI agents, data pipelines, distributed systems, and cloud-native development. Experienced in building scalable applications using modern frameworks, containerization, and workflow automation. Strong focus on performance, reliability, system design, and building practical AI-driven products.

## WORK EXPERIENCE

### Software Engineer

AMPD Energy

September 2025 – Present

Bangalore, India

- Working across mobile app development, backend services, and data engineering pipelines.
- Built and maintained scalable real-time data ingestion pipelines using **Kafka** and **MQTT**.
- Developed backend services using **NestJS**, **GraphQL**, and **TimescaleDB** for energy device data.
- Optimized mobile features and performance in the **React Native** app.
- Tech Stack: Kafka, MQTT, NestJS, Vue.js, GraphQL, TimescaleDB, React Native, Docker, Kubernetes, AWS, Terraform.

### Software Development Engineer II

BITCS

Feb 2022 – Oct 2025

Noida, India

- Architected and led the development of Raven, an internal issue management system, improving incident tracking efficiency by **40%**.
- Increased test coverage by **75%**, reducing production bugs and improving software reliability.
- Optimized frontend performance by **reducing API call latency by 30%** through caching strategies.
- Built real-time WebSocket-based notifications, improving user engagement and efficiency.
- Designed and **optimized database schemas** to enhance data integrity and performance.
- Led mentorship sessions for junior engineers, enhancing their proficiency in React and Node.js.
- Tech Stack: React, TypeScript, GraphQL, AWS (S3, EC2, RDS, CloudWatch), PostgreSQL, Docker, Kubernetes.

### Frontend Developer Intern

Sapio Analytics

Aug 2021 – Nov 2021

Mumbai, India

- Developed an interactive analytics dashboard with real-time data visualization.
- Collaborated with backend and database teams to ensure seamless data integration.
- Implemented a map feature using MapBox for state-wise data exploration.
- Tech Stack: React, Material UI, Mapbox, D3, Redux, Plotly.js, Google Charts.

## PROJECTS

### Layout (macOS App)

Personal Project

- A macOS app for seamless window and workspace management, built using Electron.
- Tech Stack: Electron, TypeScript, React.

### nullmail – Temp Mail SMTP Service

Personal Project

- Fully self-hostable temporary email + SMTP service built with high performance Go backend.
- Tech Stack: Go, SMTP, Docker, PostgreSQL.

### NL2SQL – Natural Language to SQL Agent

Personal Project

- Converts natural language queries into SQL using LangChain + FastAPI with live DB execution.
- Tech Stack: FastAPI, LangChain, React, PostgreSQL, OpenAI API.

### Object Detection Platform

Personal Project

- Real-time object detection + segmentation web app using YOLOv8.
- Tech Stack: Python, YOLOv8, Streamlit.

## SKILLS

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### Languages & Frameworks

- JavaScript, TypeScript, Python, Go, C++, Node.js, Express, NestJS, HTML, CSS, React, React Native, Next.js, GraphQL, REST, Vue.js.

### AI & LLM Tooling

- LangChain, LangGraph, Prompt Engineering, RAG Pipelines, Tooling, MCP servers.

### Databases & Storage

- PostgreSQL, MySQL, MongoDB, Redis, Firebase, Supabase, Neo4j, Pinecone, Weaviate, TimescaleDB.

### DevOps & Cloud

- Docker, Kubernetes, Terraform, AWS (EC2, S3, RDS, Lambda, IAM), GCP, Kafka, MQTT, CI/CD, WebSockets, TypeORM.

## EDUCATION

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### Meerut Institute of Engineering and Technology

Bachelors in Computer Science

7.2 SGPA

Meerut, India

## CERTIFICATIONS

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**SQL and PostgreSQL: The Complete Developer's Guide** | Udemy

*Sept - Nov 2020*

**Docker Mastery: with Kubernetes + Swarm from a Docker Captain** | Udemy

*Jan - March 2021*

**Microservices with NodeJS and React** | Udemy

*Jan - June 2022*

## LANGUAGES

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- English (Professional Proficiency)
- Hindi (Native Proficiency)