

NITIN PANWAR

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PROFESSIONAL SUMMARY

Versatile Software Engineer with **4+ years** of experience delivering high-impact web and mobile applications. Skilled in cross-platform development, DevOps, and building AI-powered agents with LangChain and LangGraph. Passionate about designing scalable systems, working with LLMs, and mentoring future engineers. Proficient in modern frameworks, cloud-native infrastructure, and AI-driven tooling. Always excited to solve problems and ship fast.

WORK EXPERIENCE

Software Development Engineer II BITCS

Feb 2022 – Present
Noida, India

- Architected and led the development of Raven, an internal issue management system, improving incident tracking efficiency by **40%**.
- Designed and implemented a scalable, reusable design system, ensuring UI/UX consistency across the organization.
- 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.
- Elevated the quality of both frontend and backend components by implementing comprehensive **testing protocols**.
- Implemented **role-based security** to secure application access and ensure data privacy.
- 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

Raven

Bitcs - Client

- Built a workflow management system to track and resolve tickets efficiently.
- Integrated real-time WebSockets for instant updates on ticket status.
- Worked closely with the client to align the project with their exact needs.
- Optimized application performance and ensured scalability.
- Tech Stack: React, Redux, NestJS, WebSockets, RabbitMQ, PostgreSQL, AWS (EC2, Lambda, RDS, CloudWatch), Docker, Kubernetes.

University of Miami – Healthcare Research Platform

Bitcs - Client

- Developed a HIPAA-compliant platform to assist in cancer research, focusing on patient activity, data collection, and remote health tracking.
- Built a dynamic calendar scheduler in React for automating IVR calls, appointment tracking, and routine test planning.
- Created intelligent feedback loops using IVR responses, enhancing system adaptability and responsiveness.
- Integrated Fitbit data to visualize and monitor patient health metrics in real-time.
- Engineered robust Node.js + NestJS APIs to manage scheduling, data sync, and secure operations.
- Delivered a comprehensive dashboard with graphical data visualization to support research insights.
- Tech Stack: React, NestJS, Node.js, Redux, IVR Systems, Fitbit API, Python, CI/CD, HIPAA Compliance.

MatriMilan

<https://matrimilan.com/>

Bitcs

- Engineered a cross-platform matchmaking application using React Native for Web and mobile, ensuring unified UX across platforms.
- Enabled users to search and connect using advanced filtering and location-aware recommendations.
- Leveraged Redux for seamless state management and Firebase for real-time data sync.
- Tech Stack: React Native (Web + Mobile), Redux, Styled Components, Firebase.

Natural Language SQL Agent

Personal Project

- Built an AI-powered SQL agent using LangChain + LangGraph to convert natural language queries into SQL and retrieve live results.
- Integrated with PostgreSQL and MySQL and visualized schema using React Flow.
- Added support for query confirmation, RAG with schema context, and tool management.
- Tech Stack: Next.js, LangChain, LangGraph, React Flow, Supabase, PostgreSQL, MySQL.

SKILLS

Languages & Frameworks

- JavaScript, TypeScript, Python, Go, C++, Node.js, Express, NestJS, Hapi.js, HTML, CSS, React, React Native (Web + Mobile), Next.js, GraphQL (Apollo, Hasura), REST.

AI & LLM Tooling

- LangChain, LangGraph, Prompt Engineering, RAG Pipelines, Tooling, OpenAI API, Groq API.

Databases & Storage

- PostgreSQL, MySQL, MongoDB, Redis, Firebase, Supabase, Neo4j (Graph DB), Pinecone, Weaviate (Vector DB).

DevOps & Cloud

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

EDUCATION

Meerut Institute of Engineering and Technology
Bachelors in Computer Science

7.2 SGPA
Merrut, India

CERTIFICATIONS

SQL and PostgreSQL: The Complete Developer's Guide | Udemy
Docker Mastery: with Kubernetes + Swarm from a Docker Captain | Udemy
Microservices with NodeJS and React | Udemy

Sept - Nov 2020
Jan - March 2021
Jan - June 2022

LANGUAGES

English (Professional Proficiency) Hindi (Native Proficiency)