

JAY PANCHAL

SOFTWARE DEVELOPER | MERN

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SUMMARY

Dynamic Node.js Developer with 3 years of experience delivering robust backend solutions and advancing system architecture for enhanced scalability and performance. Proven expertise in backend development using Node.js, with a strong foundation in microservices and database optimization, particularly with PostgreSQL. Skilled in real-time communication features and API management, ensuring high-quality, reliable applications. Committed to leveraging innovative technologies and collaborative approaches to drive project success and elevate user experiences.

EDUCATION

Silver Oak University • 2020–2024

iMSc(IT)

Sabari Vidya Vihar • 2018–2020

12th Science

SKILLS

Programming & Frameworks

- JavaScript, TypeScript
- HTML, CSS, SCSS, Tailwind, Bootstrap
- Node.js, Express.js, Nest.js, React.js
- Sequelize (ORM), Knex (ORM), Mongoose (ODM)

Databases

- MongoDB, PostgreSQL, MySQL
- Firebase

DevOps & Tools

- AWS (EC2, RDS, S3, Load Balancer, Cache, CloudTrail, CloudWatch)
- Docker, Linux, PM2, Nginx, Git, K8s
- Jira, ClickUp, Trello

Backend

- Socket.io, Web-sockets
- API Versioning, RBAC
- Redis, Rabbit-MQ

WORK EXPERIENCE

FANCALL PVT LTD

Backend Developer • May 2024 – June 2025

- Backend Development & Architecture: Built and managed scalable backend systems, optimized databases, and upgraded legacy projects.
- Technical Leadership & Mentorship: Guided interns, reviewed code, and collaborated on requirement analysis for efficient development.
- Project Management & Collaboration: Led system integrations, enhanced infrastructure, and ensured smooth team coordination.

Webs Optimization Software Solution

MERN Stack Developer • Aug, 2023 - May 2024

- Full-Stack Development: Built frontend (React, Redux, OAuth 2.0) and backend (Node.js, Express.js) for a premium service project.
- Database Optimization: Enhanced PostgreSQL performance using window functions, CTEs, triggers, and subqueries.
- Scalability & Code Quality: Ensured high-quality, scalable solutions across frontend and backend systems.

Lucent Innovation

Jr. Software Developer • Jun, 2022 - Aug 2023

- Gained hands-on experience in SQL, Node.js, JavaScript, and Docker for backend development.
- Developed an understanding of microservices architecture and Kubernetes (K8s) fundamentals.
- Contributed to scalable backend solutions in a collaborative environment.

ADDITIONAL SKILLS

- DevOps Expertise: Load balancing, server caching, and deployment with Nginx and Docker.
- Effective use of Agile tools like Jira, ClickUp, and Trello for task management.
- Mentorship & Time management

PROJECTS

Fancall (Video Calling Application)

Real-Time Communication System

- Tech Stack: Node.js, WebSockets, Agora SDK, PostgreSQL, Redis, RabbitMQ

Microservices Architecture Migration

- Tech Stack: Node.js, TurboRepo, PostgreSQL, Redis, RabbitMQ, Docker, Kubernetes (Basics)

RBAC & API Versioning

- Tech Stack: Node.js, PostgreSQL, JWT, Redis, OAuth 2.0

Data Analytics & Dashboards

- Tech Stack: Node.js, PostgreSQL, Chart.js, Redis, React.js

Premium Environmental Service

- Description: Developed a scalable MERN stack platform for environmental data management in Canada & USA.
- Tech Stack: React.js, Redux, Node.js, Express.js, PostgreSQL (Advanced SQL techniques)

BlockFender

- Description: Worked on secure file management by implementing encryption, decryption, compression, and decompression of large files.