

Rakesh Pathania, SDE-II Backend Engineer

[Linkedin](#)
[Github](#) | [Portfolio](#)

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EDUCATION

DAV University
Bachelor of Technology in Computer Science & Engineering

Jalandhar, India
07/2017 - 06/2021

SKILLS SUMMARY

Programming Languages & Frameworks: Node.js, TypeScript, JavaScript, NestJS, Express.js, Fastify, React, Vue.js, HTML5, CSS3, Laravel PHP

Databases & Caching: MySQL, PostgreSQL, MongoDB, Redis

APIs & Authentication: REST API Design, REST API Testing, GraphQL, JWT, OAuth2, Bcrypt

Cloud & DevOps: AWS (S3, EC2, Lambda), CI/CD Pipelines (GitHub Actions, GitLab CI/CD), Docker

Version Control & Tools: Git, GitHub, GitLab, Bitbucket, Jira, Postman

Soft Skills: Team Collaboration, Leadership, Effective Communication (Internal & Client-Facing)

WORK EXPERIENCE

Node.js Developer | Digimantra Labs, Mohali, India **06/2023 - Present**

- Designed scalable Node.js microservices, improving performance under high traffic by 50%.
- Improved API performance by 40% through query enhancements and Redis caching.
- Led sprint planning and mentored junior developers, enhancing team efficiency by 20%.
- Streamlined deployments via CI/CD using GitHub Actions, reducing manual effort by 30%.
- Architected and maintained key backend features using Nest.js and TypeScript, ensuring 100% type safety.
- Engineered direct upload flow using S3 pre-signed URLs, improving performance and offloading 70% of server traffic.

Node.js Developer | Cqlsys Technologies Pvt. Ltd, Mohali, India **01/2023 - 06/2023**

- Built over 40 RESTful APIs using Node.js, Express, and PostgreSQL.
- Refined database schemas and queries, reducing execution times by 15%.
- Handled GitHub/GitLab branching strategies and workflows, improving team productivity by 25%.
- Implemented keyset pagination to replace OFFSET, improving query performance by 60% on large datasets.

Backend Developer | LBM Solutions, Mohali, India **12/2021 - 01/2023**

- Delivered over 12 backend services using Laravel PHP & Node.js, enhancing system stability.
 - Revamped SQL queries for better efficiency, achieving a 20% drop in response time.
 - Ensured multi-platform API compatibility for a seamless user experience.
 - Secured user accounts using JWT & OAuth2 authentication.
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PROJECTS

EarthLink - Telecom Service Management Platform

[LINK](#)

- Telecom Service Management Platform
- Created backend services and provisioned NGINX to act as a reverse proxy, load balancer, and cache, boosting performance and reducing response time by 40%
- Collaborated with clients to refine features, boosting delivery speed 40%.

Players Wanted - Sports & Instructor Connection Platform

[LINK](#)

- Rolled out location-driven search, chat, and booking functionality, enhancing user interaction by 25%.
- Enabled video lesson uploads, increasing platform value by 20%.
- Configured Stripe for secure payments, reducing checkout failures by 35%.

PaisaXC- A Crypto Exchange

[LINK](#)

- Managed Node.js APIs connected with a Vue.js frontend.
- Structuring P2P trading and buyer-seller chat modules, improving retention by 20%.
- Established secure dispute resolution and identity verification.

Snappy-Let's Chat

[LINK](#)

- Developed end-to-end encrypted messaging with Socket.io for secure communication.
- Facilitated cross-device chat and user presence tracking, increasing active user sessions by 30%.

OSR Jobs- A Job Portal

[LINK](#)

- Executed job posting, CSV import, and application workflows, streamlining hiring for over 50 employers.
- Embedded Stripe's webhook system to sync payment statuses across microservices in real-time, reducing payment processing delays by 45%.

ACHIEVEMENTS

- Scaled a real-time chat application horizontally across multiple server instances using Redis Pub/Sub, enabling efficient message broadcasting and user session consistency, resulting in a 60% improvement in message delivery latency and supporting 3x more concurrent users.
- Migrated legacy monoliths to microservices, improving scalability and performance by 30%.
- Automated internal workflows by building an admin panel with React & Node.js, reducing operational time by 40%.

CERTIFICATIONS & TRAINING

HackerRank Certifications: Node.js | JavaScript | SQL Advanced | REST API

Industrial Training: Excellence Technology Pvt Ltd, Mohali

06/2021 - 11/2021

Internship: Netmax Technologies Pvt Ltd, Chandigarh

06/2019 - 07/2019
