

Navraj Singh

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Summary

Full-Stack Engineer with production experience building Node.js/TypeScript backends, RESTful APIs, and React.js front-ends, backed by containerized infrastructure. Experienced across the stack – from Keycloak-based authentication (OAuth2/OIDC) and CI/CD pipelines to responsive, production-grade UI development.

Experience

Backend Engineer

Aug. 2025 – Sep. 2026

Backgammon Galaxy (gammon.gg)

Remote Contract

- Engineered core RESTful APIs and tournament management backend in Node.js, Express.js, and TypeScript, handling bracket progression logic and state transitions for multi-stage competitions.
- Built the React Native mobile interface for gammon.gg, extending the platform's tournament experience to iOS and Android alongside the existing web client.
- Designed MongoDB schemas and indexing strategies for tournament brackets and user records, cutting p95 query time by 35% under concurrent load.
- Centralized user authentication onto a standalone Keycloak server, implementing OAuth2/OIDC token verification and role-based access control (RBAC) across backend services.
- Built automated CI/CD pipelines using Bitbucket Pipelines and Docker, cutting deploy time from 12 min to 3 min with zero-downtime, single-commit releases to production.
- Provisioned and secured production VPS infrastructure with Nginx reverse proxy, SSL/TLS termination, route-level rate limiting, and isolated Docker networks, filtering malicious and abusive traffic before it reached application containers.
- Replaced manual SSH log inspection with a centralized Fluent Bit + OpenObserve logging pipeline, cutting production issue triage time from 20 min to 5 min.

Projects

Imagify | [GitHub](#) | *React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Razorpay*

Jan. 2025 – Feb. 2025

- Built a full-stack MERN SaaS platform for AI image generation, pairing a React.js/Tailwind CSS front-end with credit-based usage tiers and schema-validated REST endpoints.
- Shipped a fully responsive UI with 98% cross-device compatibility, and implemented JWT authentication middleware to gate premium features client- and server-side.
- Engineered secure checkout flows via Razorpay webhooks, implementing signature verification, idempotent event handling, and atomic database operations to eliminate credit duplication on retried events.
- Reduced query latency by 20% for frequently accessed user queries through composite indexing and aggregation tuning.

Subscription Management API | [GitHub](#) | *Node.js, Express.js, MongoDB, Redis, JWT*

Oct. 2024 – Nov. 2024

- Built a subscription lifecycle service with automated renewal processing, using Redis-backed background workers and MongoDB TTL indexes to handle expirations without polling.
- Implemented distributed sliding-window rate limiting using Redis sorted sets to mitigate burst traffic, alongside centralized error handling for consistent API responses.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), SQL

Frontend: React.js, React Native, Tailwind CSS, Zustand, Vite

Backend: Node.js, Express.js, REST APIs, Middleware Architecture, Schema Validation, OpenAPI/Swagger

Data Stores: MongoDB, PostgreSQL, Redis, MySQL

Infrastructure & DevOps: Docker, Docker Compose, Nginx, Bitbucket Pipelines, Harbor Registry, Cloudflare, Git, Linux

Security & Observability: Keycloak (IAM), OAuth2/OIDC, JWT, RBAC, SSL/TLS, Fluent Bit, OpenObserve

Leadership & Activities

Vice President, Coders Club

Sep. 2024 – May 2025

Baba Farid College of Engineering & Technology

Bathinda, Punjab

- Led a team of 10+ student developers to organize campus coding competitions and hackathons, increasing student participation by 40%.
- Mentored 50+ students in web development and competitive programming, improving project completion rates by 30%.
- Delivered technical workshops on web architecture and API security for 60+ attendees, covering OWASP Top 10 vulnerabilities and defensive backend practices.

Education

Baba Farid College of Engineering & Technology

Bathinda, Punjab

B.Tech in Computer Science & Engineering

Aug. 2022 – May 2026