

Reza Golkhandani

Senior Software Engineer, Vancouver, BC

Backend platforms, integrations, and AI-assisted engineering

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Summary

Senior software engineer with nearly 10 years of experience designing backend platforms, third-party integrations, and developer tooling for SaaS and field-operations products. Takes full ownership of a system from data model and architecture decisions through reliability, authorization, and test infrastructure, and turns fragile processes into durable ones. Brings AI-assisted engineering to a team as a practice, building the skills, agents, and conventions that let engineers ship faster without lowering the quality bar, and mentors through teaching and code review.

Skills

Languages and frameworks: TypeScript, Node.js, Nest.js, Next.js, React, Flutter (Dart), Java

Data and messaging: PostgreSQL (Drizzle, TypeORM), MongoDB, Redis, Elasticsearch, Kafka, RabbitMQ, GraphQL

Cloud and delivery: AWS (Lambda, SQS, SES, S3), Serverless Framework, SST, Docker, Kubernetes, GitHub Actions, GitLab CI

Quality and observability: Playwright, Jest, Vitest, TDD, ESLint rule authoring, OpenTelemetry, Sentry, Datadog, CloudWatch

Architecture and AI tooling: Architecture Decision Records, ReBAC authorization, Agentic skills and MCP servers

Experience

Senior Software Engineer WOW 1 Day Painting Inc. · Sep 2025 – Present

- Own about 30% of the platform codebase after one year and authored 34 architecture decision records that set the team's engineering conventions.
- Own the scheduling and dispatch engine end to end, from the availability model to the dispatch board; it powers estimate booking, sales, and online booking across all franchises. Delivered crew scheduling for field crews: shift assignment, open shifts, and the production timeline crews work from each day. Delivered the Sales Centre and franchise KPI dashboard for sales teams.
- Own real-time Google Calendar sync across franchise calendars, from OAuth and webhooks to a durable outbox worker that keeps technician and customer events consistent in both directions.
- Led the redesign of authorization to relationship-based access control and established end-to-end testing, including a staging suite that runs the full sales-to-paid lifecycle against live integrations.
- Built the AI-assisted engineering harness the team works inside: Claude Code skills for the ticket lifecycle, cross-service error triage, root-cause analysis, and hypothesis debugging on a custom MCP debug server.

Full-Stack Development Instructor CCTB College · Part-time · Sep 2024 – Apr 2026

- Taught Java OOP, web development, Linux and networking, and test automation to classes of 20+; redesigned the Linux curriculum around automation, Docker, and CI/CD.

Senior Backend Developer Sync.com Inc. · May 2024 – Sep 2024

- Introduced a queued notification service with improved spam tolerance and delivery reliability for over 2 million customers.
- Improved file-sharing performance by 10% to 30% through query and flow optimization.

Full-Stack Developer SkyHive Technologies Inc. · Dec 2022 – Jan 2024

- Built Node.js REST and GraphQL APIs and React and Flutter front ends for an AI-driven workforce SaaS.
- Cut rating-system mismatch by 10% and runtime by 50 to 200 ms per run by optimizing background workers and queries.
- Ran Kafka, RabbitMQ, and YugabyteDB workloads at about 25% lower cost than managed cloud equivalents, with OpenTelemetry monitoring.

Software Developer Plasmatic Technologies Inc. · Oct 2021 – Dec 2022

- Built three serverless backend services for data anonymization, IoT communication, and reporting (Node.js, Serverless Framework, GraphQL, AWS).
- Raised unit test coverage above 90% on critical services, sped up ACL authentication by over 100 ms, and designed the OpenSearch KNN recommendation schema.

Senior Backend Developer Fabizi (Supnex) · Mar 2020 – Sep 2021

- First engineer; designed the SaaS and database architecture (Nest.js, MongoDB, PostgreSQL, Redis), Kafka and RabbitMQ flows for high-volume writes, and Elasticsearch inventory search.

Full-Stack Developer Peeyade · Nov 2016 – Mar 2020

- First developer; grew a location-based events platform to over 100k users on Node.js, MongoDB, PostgreSQL, and Elasticsearch, with an FFmpeg media pipeline and GitLab CI deployments.

Projects and gigs

Software Engineer, Plasmatic Technologies Inc. (WAVSmart) (Contract, Aug 2026 – Present): sole engineer on the iLOQ physical access-control integration for a multi-tenant IoT platform, from a full simulator of the vendor's 97-endpoint API to person sync, key provisioning, audit-log ingestion, and access alerting validated against a live vendor tenant.

Founder & Lead Developer, Next Horizon Technologies Inc. (Sep 2025 – Present): software studio shipping SaaS and mobile products; built MyServiceCRM, an end-to-end platform for service businesses (booking, estimates, scheduling, invoicing, Stripe Connect payments) on Nest.js, Next.js, and PostgreSQL, and privacy-first iOS apps in Flutter with on-device data management.

Full-Stack Developer, EvolveX Branding Inc. (Contract, Sep 2024 – Apr 2025): built the Node.js REST API with real-time chat and an OpenAI chatbot, and shipped the Flutter MVP app with maps, payments, and OAuth.

mysql2-nestjs, mongoose-tenancy-nest, fastest-validator-nestjs: npm packages for multi-tenancy and validation in Nest.js

Education

MSc, Instructional Technology · New York Institute of Technology

BSc, Electrical Engineering · Semnan University