

Gautam Patel

Backend Software Engineer

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Summary

Backend Software Engineer with 2+ years of experience designing and delivering production backend systems using **Java, Python, and Node.js**. Built **scalable services** for payment platforms, financial systems, and market data applications, implementing backend integrations, **event-driven workflows**, and **reusable platform components** in cloud environments. Passionate about **backend architecture**, **distributed systems**, and building reliable, maintainable software.

Professional Experience

Career Break, Professional Development & Technical Writing

Surat | Mar 2025 – Apr 2026

- Took a career break to support an immediate family member during long-term medical treatment while continuing professional development.
- Strengthened backend engineering, system design, and data structures & algorithms through structured self-study and hands-on practice.
- Authored technical blogs covering backend engineering and system design concepts.

Fintech Global Center, Software Engineer

Gandhinagar | May 2023 – Feb 2025

7Chord (Python | Java | Spring Boot | SQL | PostgreSQL | MongoDB | Redis | RabbitMQ | Google Cloud Platform (GCP) | Pandas | NumPy | Linux | Bash)

- Designed and developed a reusable bond identification library that resolved multiple security identifiers into a unified internal bond identifier, enabling consistent integration across market data ingestion pipelines.
 - Implemented priority-based identifier resolution to reconcile conflicting data from multiple market providers and support future identifier merges.
 - Designed a Redis-backed lookup workflow with database reconciliation to support high-throughput market data ingestion while maintaining eventual consistency.
- Designed and developed a reusable market data alerting module to detect feed downtime using feed-specific message thresholds across multiple data streams.
 - Implemented market-specific trading hours, holiday calendars, and timezone-aware scheduling to support multiple market data feeds across different regions.

NoCodeApp (Node.js | Express.js | JavaScript | GraphQL | AWS | DynamoDB | Stripe)

- Extended the NoCodeApp platform to support content publishing across Facebook, Instagram, X (Twitter), and LinkedIn.
 - Implemented a handle-based subscription workflow for social media publishing, extending the existing pay-as-you-go billing model to support dynamic per-handle pricing.
 - Implemented OAuth-based account linking, token lifecycle management, and reauthorization workflows for various social media platforms, handling access token renewal and expired credentials.
 - Developed frontend interaction logic for social media account management, including handle selection, publishing preferences, reauthorization prompts, and post preview workflows.
- Migrated the existing NoCodeApp subscription system from a prepaid model to a pay-as-you-go billing model, extending the existing payment platform to support usage-based subscriptions and trial periods.

- Implemented backend safeguards to prevent duplicate subscription creation caused by concurrent payment attempts.
- Developed a repayment workflow to restore past-due subscriptions after successful payment updates while efficiently processing outstanding invoices.

TMS (JavaScript | TypeScript | Node.js | NestJS | PostgreSQL | AWS)

- Refactored the backend P&L and position calculation workflow to support generic stored procedure interfaces, replacing clearer-specific mappings and enabling integration with future trade clearers.

SharpeMarket (Java | Spring Boot | SQL | Amazon RDS | AWS | Stripe)

- Collaborated with the product team to translate business requirements into a technically feasible portfolio subscription price change workflow and served as the technical point of contact during implementation.

Fintech Global Center, *Software Engineer Intern*

Gandhinagar | Jan 2023 – May 2023

JPMC - FIX Protocol Trade Processing Module (Java | Spring Boot | Amazon RDS | Amazon SQS | FIX Protocol -QuickFIX/J)

- Implemented a FIX Protocol-based trade processing module to ingest new, replace, and cancel orders, persist trade data, and generate execution report acknowledgements.
 - Mapped FIX Protocol messages to relational database models and generated execution reports by translating database records back into FIX messages using client specifications.
 - Implemented trade processing within an Amazon SQS-based asynchronous workflow, enabling higher throughput by separating FIX message ingestion from downstream processing and execution report generation.

NoCodeApp (Node.js | Express.js | JavaScript | GraphQL | AWS | DynamoDB | Stripe)

- Rapidly onboarded to the NoCodeApp codebase by resolving 50+ issues spanning backend services, payment workflows, frontend logic, and user interface behavior.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, SQL

Backend: Spring Boot, Spring Data JPA, Hibernate, Node.js, Express.js, NestJS, GraphQL, REST APIs

Frontend: React.js, Angular

Cloud, Databases & Messaging: AWS, GCP, PostgreSQL, DynamoDB, MongoDB, Redis, RabbitMQ, Amazon SQS

Payments & Integrations: Stripe, OAuth

Tools & Libraries: Git, Linux, Bash, Postman, Pandas, NumPy

Projects

Order Challan SignPad

- **HTML5 | CSS3 | JavaScript | Node.js | Express.js | MongoDB**
- Built a digital signature and document confirmation system for package senders, implementing user authentication, document storage, and automated email notifications.

Binge Watcher's Twitter

- **React.js | JavaScript | HTML5 | CSS3 | Bootstrap 5 | Firebase**
- Developed a Twitter-inspired movie discussion platform integrating third-party movie APIs, with Firebase-based authentication, data storage, and user interactions.

Education

Dhirubhai Ambani University (Formerly DA-IICT),
Master of Science in Information Technology

Gandhinagar | Aug 2021 – May 2023

Veer Narmad South Gujarat University,
Bachelor of Science in Information Technology

Surat | Jul 2018 – Jun 2021