

JAY PATEL

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Summary

- Full-Stack Software Engineer with 4+ years of experience designing, building, and deploying scalable web applications and APIs. Proficient in TypeScript, JavaScript, and Python, specializing in frameworks like React, Node.js, FastAPI, and Spring Boot. Experienced in developing robust, containerized solutions deployed on Kubernetes and cloud platforms, with a strong foundation in AI-driven workflows, observability, and performance optimization.

EDUCATION

Stevens Institute of Technology, Hoboken, NJ

August 2022- May 2024

Master of Science – Computer Science

Gujarat Technological University, Gujarat

August 2017- July 2021

Bachelor of Engineering – Computer Engineering

SKILLS

Front-End: Next.js, React.js, TypeScript, Tailwind CSS, CSS

Back-End: Python, FastAPI, Django, Spring, Spring Boot, Node.js, Go

Databases: SQL (MySQL, Oracle, PostgreSQL), NoSQL (MongoDB, DynamoDB)

Cloud & Devops: AWS, Azure, Git, Docker, Terraform, Jenkins, Kubernetes, GitHub Actions

Testing & APIs: Pytest, Postman, RESTful APIs, gRPC

Certifications: [AWS Certified SysOps Administrator – Associate](#), [HashiCorp Certified: Terraform Associate \(003\)](#)

WORK EXPERIENCE

Metlife, United States

January 2024 – Present

Software Engineer

- Collaborated** with product and architecture teams to build a Policy Management & Claims Automation portal using React, TypeScript, Node.js, and PostgreSQL, **reducing claim processing time by 30%**.
- Architected** RESTful and gRPC microservices (Spring Boot, FastAPI) with Kafka event streams for an AI-driven Retirement & Investment Planning service, boosting real-time data throughput by 40%.
- Optimized** API performance via Redis front-caching and HTTP cache headers, slashing average response times by 50% under peak load.
- Deployed** containerized workloads on AWS EKS & Azure Kubernetes with Terraform IaC, achieving **99.9%** uptime.
- Built** CI/CD pipelines (Jenkins, GitHub Actions) with automated testing (Jest, Cypress) and zero-downtime deployments, accelerating release cadence by 40%.
- Ensured** compliance with OWASP/InfoSec standards and applied HIPAA readiness best practices; integrated OAuth2/JWT and SAML SSO via API Gateway & WAF.

Streebo Inc., India

November 2019 – July 2022

Associate Software Engineer

- Developed** responsive SPAs in React and Redux, driving a **30%** increase in user engagement and **25%** faster page loads.
- Built** Java microservices (Spring Boot) and Python services (Flask), exposed via REST and gRPC, deployed on AWS EC2 & Lambda—reducing API latency by 40% and cutting hosting costs by 50%.
- Configured** AWS RDS (PostgreSQL, Oracle) with JDBC/Hibernate; optimized schema and queries for **35%** faster data retrieval.
- Integrated** IBM Watson chatbots and low-code connectors to automate **80%** of user inquiries, elevating customer satisfaction.

ACADEMIC PROJECTS

[RapidAI Agent](#)

- Developed a demo platform with FastAPI and React enabling contextual AI assistants through retrieval-augmented generation (RAG), integrated with Groq LLM, OpenAI and LangChain embeddings.

[Magicdot Solar](#)

- Task & sales management app (Node.js, Express, MongoDB, Tailwind) on AWS with CI/CD via Jenkins; monitored via Prometheus & Grafana.

[AWS DriftGuard](#)

- Python CLI for Terraform drift detection; Slack alerts and discrepancy reports to enforce IaC consistency.

[UptimeMonitor](#)

- React, Go & PostgreSQL uptime tracking with customizable dashboards and email alerts, enabling proactive reliability.