

Pravin Patel

Principal Software Engineer / Distributed Systems & AI-Driven Development

New York, NY
📞 (732) 310-4592
✉ Pravin.patel4592@gmail.com
in pravin-patel-91817821

Executive Summary

Principal-level Software Engineer with over **10 years of experience** designing and scaling high-availability, cloud-native financial systems. Proven leader in **architecting distributed platforms**, driving multi-billion-dollar business outcomes, and mentoring high-performing engineering teams. Expert in **Java, Spring Boot, Python, SQL, No-SQL, and AWS**, leveraging **Generative and Agentic AI tools** to significantly accelerate the software development lifecycle (SDLC) and engineering productivity.

Technical Skills

Architecture	Distributed Systems, Microservices, Event-Driven Design, API Ecosystems, System Design
AI & Productivity	Generative AI, Agentic AI , Claude Code, Windsurf, GitHub Copilot, Gemini
Backend	Java (8/11/17), Python, Spring Boot , Kafka, Hibernate, REST/SOAP APIs
Frontend	TypeScript, React, Angular JS , JavaScript, CSS3/HTML5
Cloud/Ops	AWS (Fargate , Athena, DynamoDB, Lambda, S3, EC2), Snowflake, SQL & No-SQL , Splunk, Dynatrace, CI/CD
Leadership	Architecture Ownership, Team Mentorship, Design Reviews, Cross-functional Strategy

Professional Experience

- 2021 – Present **Principal Associate (Principal Engineer)**, *Capital One*, New York, NY
- **Initial Funding API (Architectural Ownership)**
 - Spearheaded the architecture of a secure Initial Funding API, enabling billions in **customer deposits** through highly scalable funding workflows.
 - Accelerated development velocity by **30%** by integrating **Agentic AI tools (Claude Code, GitHub Copilot)** into the team's coding and code-review workflows.
 - Orchestrated integrations with complex downstream banking systems, ensuring strict regulatory compliance.
 - Managed end-to-end capacity planning and production rollouts with **zero critical incidents**.
 - **Switcher Microservice (Lead Engineer)**
 - Architected a high-concurrency microservice to automate the migration of recurring transactions.
 - Achieved a **50% reduction** in inactive account closures, directly improving long-term retention.
 - Provided technical governance for a team of 5+ engineers, leading design reviews and MVP execution.
 - Championed engineering excellence and influenced standards across the broader account opening platforms.
- 2020 – 2021 **Senior Software Engineer (Contract)**, *Amazon*, Seattle, WA
- Engineered a scalable HR Management Portal leveraging Java and AWS cloud-native services.
 - Optimized data operations by implementing batch processing pipelines via **AWS Athena**, cutting manual overhead by **40%**.
 - Delivered security-compliant, data-driven solutions in collaboration with global business stakeholders.

- 2016 – 2020 **Senior Software Engineer**, *JP Morgan Chase*, Seattle, WA / NJ
- Developed high-throughput financial applications using Spring Boot, Kafka, Snowflake, and AWS.
 - Built and maintained mission-critical REST/SOAP APIs supporting core commercial banking workflows.
 - Leveraged **Splunk** and **Dynatrace** to proactively monitor performance and reduce system latency.
 - Acted as a mentor and technical subject matter expert (SME) for junior and mid-level engineers.
- 2014 – 2016 **Web Developer**, *Wells Fargo*, Philadelphia, PA
- Developed robust Java-based web applications utilizing Spring, Hibernate, and **AngularJS**.
 - Collaborated in high-velocity Agile teams to deliver quality features with focus on test-driven development.

Education

2011 Bachelor of Science in Information Technology, Gujarat University

Certifications

AWS Certified Solutions Architect – Associate

AWS Certified Developer – Associate

Oracle Certified Professional, Java SE Programmer