

NIKHIL SHELKE

Full Stack Developer | Software Engineer | Backend Engineer | Software Developer
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PROFESSIONAL SUMMARY

Results-driven **Full Stack Developer and Software Engineer** with **5+ years of hands-on experience** designing, building, and maintaining **production-grade applications end-to-end**. Deep expertise in **Java/Spring Boot microservices, RESTful API design, React.js/Angular front-end development**, and **cloud-native deployments (AWS, GCP, Azure)**. Proven success in **CI/CD pipeline automation** using GitHub Actions and Jenkins, **Kubernetes and Helm-based deployments**, and **Test-Driven Development (TDD)** achieving 90% test coverage. Strong background in **performance optimisation, distributed systems**, and **DevSecOps** practices. Collaborative team member experienced in Agile/Scrum, code reviews, mentoring, and delivering scalable solutions in fast-paced engineering environments.

TECHNICAL SKILLS

Languages: Java (8, 11, 17), JavaScript, TypeScript, Python, SQL, Groovy, Bash

Frontend: React.js, Angular, HTML5, CSS3, AJAX, XML, Express.js, Node.js, JSON

Backend & APIs: Spring, Spring Boot, RESTful APIs, Microservices, JPA, Hibernate, J2EE, Node.js

Databases: Oracle, PostgreSQL, MySQL, MongoDB, NoSQL, schema design, query optimisation, Liquibase migrations

Cloud & DevOps: AWS (EC2, Lambda, S3, RDS, SNS, SQS, CloudWatch), GCP (Cloud Run, BigQuery), Azure, PCF, Docker, Kubernetes, Helm, Terraform

CI/CD & Testing: GitHub Actions, GitLab CI, Jenkins, TDD, Cucumber, JUnit, SonarQube, Automated Testing (90% coverage), DevSecOps

Observability & Tools: Splunk, AppDynamics, Kibana, Datadog, OpenTelemetry, Prometheus-style Metrics, IntelliJ IDEA, Git, Postman

PROFESSIONAL EXPERIENCE

Full Stack Developer III | FedEx Corporation, USA *April 2024 – Present*

- Architected and maintained **end-to-end production applications** supporting **10,000+ daily shipment transactions**, from Java/Spring Boot API development to CI/CD, deployment, and monitoring across distributed systems.
- Built and maintained **reusable platform components and CI/CD pipeline templates** (GitHub Actions, Jenkins) adopted by **8+ engineering teams**, reducing pipeline setup time by **50%** and increasing release frequency by **35%**.
- Designed Kubernetes-based deployments using **15+ Helm charts**, reducing environment inconsistencies by **40%** and ensuring consistency across dev, staging, and production environments.
- Reduced backend API latency by **28%** through profiling, caching strategies, and database query optimisation on high-volume Java/Spring microservices.
- Implemented **DevSecOps automation** in CI/CD pipelines to identify and remediate security vulnerabilities, achieving a **30% reduction in open CVEs** across the microservices portfolio.
- Monitored system performance using **Splunk, AppDynamics, and OpenTelemetry**, driving a **25% improvement in MTTR** and maintaining **99.9%+ uptime** for customer-facing production services.
- Worked extensively with **complex REST APIs and message-based integrations** supporting distributed systems processing **1M+ events per day** across logistics workflows.
- Mentored **3 junior engineers**, conducted regular code reviews, and contributed to CI/CD strategy and coding standards adopted company-wide.

Software Engineer | Fast Switch – Great Lakes LLC, USA *July 2023 – Nov 2023*

- Led migration of a **monolithic system to microservices architecture**, enabling independent deployments and improving platform scalability by **4x release cadence**.
- Implemented **TDD with Cucumber**, achieving **90% automated test coverage** across unit, integration, and acceptance tests integrated into CI/CD pipelines.
- Established coding standards and quality gates using **SonarQube**, cutting technical debt by **20%** within 3 months.
- Automated environment provisioning with **Terraform**, reducing infrastructure setup time by **75%** from 3 days to under 2 hours across 3 repeatable environments.
- Optimised backend performance using **Java 8+ features**, load balancing, and caching, achieving a **35% reduction in API response time**.
- Applied **OAuth2/JWT authentication and authorisation** best practices, reducing security vulnerabilities by **60%** across services.

Software Engineer | Sira Consulting Inc, USA Jan 2023 – July 2023

- Developed and deployed **reusable backend and frontend components** using Spring Boot and React.js, improving maintainability and reducing per-feature development time by **25%**.
- Supported **cloud-based CI/CD pipelines** (AWS, GCP), contributing to reliable releases with a **99.5%+ deployment success rate** across 2 production environments.
- Implemented multi-threading and concurrency improvements, improving backend throughput by **20%** under peak load conditions.
- Gained hands-on exposure to **cloud API gateways, OAuth2 authentication, and distributed system patterns** in Azure and GCP environments.

Software Engineer | Sigma Info Solution, India Aug 2019 – July 2021

- Built **cloud-hosted REST APIs and full-stack web applications** using Spring Boot (embedded Tomcat) on AWS and GCP, serving **5,000+ daily users**.
- Implemented data caching strategies, achieving a **20% reduction in database query response time** and improved scalability under peak load.
- Applied **Acceptance TDD with Cucumber**, automating test execution for every feature and maintaining **85% test coverage**.
- Maintained CI/CD pipelines for automated testing and deployment, contributing to a **99%+ release success rate** over 2 years.
- Optimised backend performance using **Java 8+ streams, lambdas, and parallel processing**, improving throughput by **15%** under concurrent load.
- Managed database transactions using **JDBC, Hibernate, and Spring Boot**, ensuring data integrity and reliability across schema changes.

EDUCATION

Master of Science, Computer Science | Texas A&M University–Kingsville, USA | Dec 2022

Bachelor of Technology | Maharashtra Institute of Technology, Pune, India | May 2020

ACHIEVEMENTS & LEADERSHIP

- Awarded the **College of Engineering Dean's Merit In-State Scholarship**, Texas A&M University, top academic honor in the engineering graduate program.
- **Student Lead Volunteer** 5th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R); coordinated logistics for **200+ attendees**.
- Elected **President, Association of Indian Students (AIS)**, Texas A&M University led a **150+ member organization** across 2 academic years.

ADDITIONAL

Key Competencies: Full Stack Development | Backend Engineering | RESTful API Design | Microservices Architecture | System Design | CI/CD Automation | Cloud-Native Development | Performance Optimisation | Distributed Systems | Agile/Scrum

Frameworks & Libs: Spring, Spring Boot, Spring MVC, Hibernate, JPA, React.js, Angular, Express.js, Node.js, Cucumber, JUnit, Mockito, Lombok

Cloud Platforms: AWS (EC2, Lambda, S3, RDS, SNS, SQS, CloudWatch, IAM), GCP (Cloud Run, Cloud Functions, BigQuery, Cloud SQL), Azure, PCF

Version Control: Git, GitHub, GitLab — branching strategies, pull requests, code reviews, merge management

Soft Skills: Technical Mentoring | Code Reviews | Agile/Scrum | Cross-Team Collaboration | Technical Documentation | Problem Solving