Nilesh Parmar

github.com/nileshparmar0 | linkedin.com/in/nilesh-parmar- | Portfolio | nilesh097parmar@gmail.com | +1.857.379.4764

Professional Summary

Software Engineer with **3+ years** of experience delivering high-performance distributed systems and cloud-native platforms. Proven record improving system reliability by 30%, cutting page load times by 50%, and raising test coverage by 14% across mission-critical applications. Skilled in building scalable microservices (**Node.js**, **Java**, **Spring Boot**) and shipping secure, observable, production-ready systems on **AWS** & **Kubernetes**.

Work Experience

Software Engineer | **Paras Industries, India** Sep 2021 - Aug 2023

- Developed **backend services** and **REST APIs** for a B2C e-commerce platform for industrial equipment, supporting seamless product browsing, ordering, and payments for **2K daily users**
- Built distributed retry system with **RabbitMQ** and in-memory caching, improving payment reliability by **30%**, recovering Rs. 6K daily revenue from failed transactions and ensuring transactional consistency at scale
- Revamped the frontend with **React** and **React Router**, implementing **code-splitting** and **CloudFront CDN**, reducing page load times by **50%** and improving checkout conversion rates across the product catalog
- Deployed microservices on **AWS EKS (Kubernetes)**, configured **auto-scaling** and cache pre-warming to handle traffic spikes while maintaining stable uptime and optimal system performance
- Implemented an **observability platform** using **CloudWatch metrics** and **alerts**, reducing incident resolution time
- **Mentored 3-4 junior developers**, conducting weekly **technical sessions** and **code reviews** that reduced onboarding time by **40%** and accelerated feature delivery across the engineering organization

Software Engineer | **Nvidia, India** Apr 2021 - Aug 2021

- Developed **GPU driver validation framework** with **150+ Python unit tests** to increase test coverage from **63%** to **77%**, reducing production bugs by **25%** and validating driver functionality across 10+ GPU architectures
- Optimized build system with **parallel compilation** and **caching** to cut average build time by 14 minutes
- Diagnosed and fixed **3 critical memory leaks** using **Valgrind** and **custom profiling** to eliminate daily crashes, resolving stability issues for 20+ developers and reducing memory-related incidents through improved debugging practices
- Created **testing documentation** and onboarding guides to reduce new hire ramp-up time, enabling **code contributions** within the first week and establishing standardized testing practices across the GPU driver team
- Resolved **3 complex race conditions** in GPU driver code to **enhance system stability**, preventing intermittent failures in customer deployments and reducing **production incidents** by improving thread-safety mechanisms

Software Engineer | **Nimbeshwar Technologies, India** Apr 2020 - Mar 2021

- Developed **core Payment API** using **Java (Spring Boot)** and **PostgreSQL**, improving transaction reliability by **20%**, reducing response times by 4× and processing 10K+ daily transactions at scale
- Implemented **Redis caching** and optimized **database queries** to boost system throughput under high-traffic conditions
- Automated **CI/CD pipelines** with **GitHub Actions** and **Docker**, cutting deployment time from 3 hours to 45 minutes
- **Collaborated** with **product teams** to design **scalable microservice architecture** and streamline release processes

Projects

Academic Research Assistant Chatbot | **Github**

- Architected distributed chatbot using Akka Actor Model achieving <2-second response times via parallel PDF processing
- Implemented RAG pipeline with Qdrant vector database and Ollama LLMs for natural language querying
- Developed full-stack application with Maven, Java Swing UI, and REST API supporting multi-node cluster deployment

Social Media Application | **Github**

- Built full-stack platform with Django backend implementing user authentication and real-time notifications
- Designed social features including post creation, comment threading, and follower functionality
- Created responsive UI with Bootstrap ensuring cross-device compatibility

Fitness Tracker | **Github**

- Developed fitness tracking app with React.js and Zustand, featuring exercise logging and interactive dashboard
- Integrated real-time data visualization using Recharts for tracking workout progress and metrics
- Engineered scalable architecture with React Router DOM for multi-page navigation

Education

Northeastern University | MS in Information Systems Sep 2023 - Aug 2025
University of Mumbai | BE in Electronics and Telecommunication Sep 2015 - Nov 2020

Skills

Programming Languages:	Java, Python, JavaScript, SQL, Go, TypeScript
Frontend:	React, HTML5, CSS3, Bootstrap, Angular, Zustand
Backend:	Node.js, Spring Boot, Flask, REST APIs, GraphQL, Akka
Cloud & DevOps:	AWS, Docker, Kubernetes, GitHub Actions, CloudFront
Databases:	MySQL, PostgreSQL, MongoDB, Redis, Qdrant
Architecture:	Microservices, Distributed Systems, RAG, Actor Model
Tools & Testing:	Git, Postman, Jira, Unit Testing, PyTest, Valgrind, CI/CD pipelines