Bhavik Patel

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SKILLS

- **Languages**: Java, SQL, NoSQL.
- **Technologies**: Spring Boot, AWS,Spring Security, Git, Docker, Elasticsearch, DBMS, ,Redis, Keycloak, Kafka, Prometheus, Grafana.
- **Concepts**: Object-Oriented Programming, Functional Programming, MVC, JPA projections and specifications, REST API, Microservices, Debugging, CQRS (Command Query Responsibility Segregation), Event-Driven Architecture (EDA).

EXPERIENCE

- **Tekdi Technologies**   Pune, Maharashtra
  Software Engineer   *Nov 2022 - Current*

  Skill Digital India — National Skill Development Corporation (NSDC)

  - **Database Design & Code Management**: Developed a **comprehensive table structure** for a **design-related feature**, comprising **joint tables** with **indexing** on fields.
  - **Secure Authentication:** Integrated courses with **Microsoft, AWS, Maniputra**, and other LMS using **SAML & cryptographic keys**, enabling seamless authentication with **Aadhaar**, **Digilocker**, **PMKVY**, and **Eskill**.
  - **Payment gateway integration:** Integrated the **ICICI payment gateway** into our system to streamline secure payment processing, enhance transaction efficiency, and deliver a robust, real-time payment experience with industry-standard security compliance.
  - **Microservices & Performance Optimization:** Managed **21 out of 64 microservices**, optimizing **scalability, availability, and system stability** through **caching (Redis, Elasticsearch)** and **health checks**.
  - **Keycloak Customization & Upgrades:** Developed a custom **Keycloak SPI** for tailored authentication workflows and led the **upgrade from 14.0 to 21.1.2**, ensuring security and performance improvements.

PROJECTS

Skill Digital India — National Skill Development Corporation (NSDC):

- Developed a comprehensive table structure for a design-related course, comprising 16 joint tables with binary indexing on ID and adhering to the principles of second normalisation forms(2NF). Additionally, created and implemented filters for course categorisation, effectively managing a portfolio of 850 live courses.
- Integrated various courses seamlessly with Microsoft, AWS, Maniputra, and other LMS platforms using SAML and cryptographic keys, ensuring secure and efficient interoperability.
- Collaborated with cross-functional teams to execute the NSDC Skill India Digital initiative, enabling seamless integrations with Aadhaar, Digilocker, PMKVY, and Eskill services, while managing and optimizing 21 out of 64 microservices for improved system efficiency.
- Enhanced system performance by implementing Redis for caching, optimizing frequently accessed data, and utilizing CQRS with Elasticsearch for faster read operations, ensuring low-latency responses and improved scalability.
- Integrated ICICI Payment Gateway into the system, implementing secure transaction workflows, API integrations, and webhook handling to ensure seamless payment processing, real-time status updates, and enhanced reliability.
- Build and execute custom Keycloak SPI, implementing essential actions tailored to project requirements, customizing user authentication experience.
- **Environment**: Java 11, Spring Boot, Spring Data JPA and specifications, PostgreSQL, Elasticsearch, Kafka, Keycloak, Docker, Redis, Multi-threading, OOPS, SOLID Principles, BFF pattern.

EDUCATION

- **K K Wagh Institute of Engineering Education and Research**   Nashik, India
  Bachelor of Information technology; GPA: 8.72/10.0 - First class with distinction   *Aug 2018 - May 2022*

HONORS AND AWARDS

- Received as the "Best Performer" in Tekdi for showcasing outstanding performance and dedication.
- Solved 250+ problems on leetcode.
- Received an appreciation letter form NSDC for exceptional contributions in the project.