Parth Lakhani

Software Developer

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Profile

Innovative Software Developer with 1.5+ years of experience delivering scalable, high-performance applications. Skilled in Spring, Spring Boot, and Microservices, with a strong foundation in JavaScript and an experience in AI technologies. Adept at building end-to-end solutions, optimizing system performance, and delivering robust microservices-based architectures. Passionate about leveraging technology to solve complex problems in agile environments.

Education

Bachelor of Engineering

Gujarat Technological University

May 2018 – Jun 2022 | Gandhinagar, India

- Graduated with a CGPA of 8.62 on a 10-point scale, demonstrating consistent academic excellence.

Professional Experience

Bhaskaracharya National Institute for Space Applications and Geo-informatics

Software Developer

Mar 2023 – present | Gandhinagar, India

- Designed and implemented websites for the **Indian Defence Sector** using a Spring-MVC-based architecture, increasing scalability and reducing system downtime by 30%.
- Optimized SQL queries and database schema, resulting in a 25% performance boost across critical endpoints.
- Developed a real-time analytics dashboard using Spring Boot make data-driven decisions.
- Developed GIS-based web applications to visualize and analyze spatial data, enabling enhanced decision-making and geographic insights.
- Integrated authentication protocols and secure APIs to safeguard sensitive defense data, enhancing system security.

Skills

Spring Boot | Spring MVC |
Integrated GIS tools | Javascript

Projects

SITUATIONAL AWARENESS MODULE FOR ARMY

- The Situational Awareness Module for Army is a live website currently deployed in **Army Data Network (ADN)**. The Geo-Spatial based website is used for marking sensors on map and detecting various activities from enemy countries.
- The more advanced technologies like geo spatial queries and the area visibility by particular sensors also has been included in data visualisation part. By marking two visible points on map, the module can create a verbal path on map so one can make strategic decision ahead.

e-TARANG

- Spectrum allocation model reduce process of frequency allocation by 80%, ensuring the accuracy of frequency bandwidth to avoid intersection with other bandwidths. Streamline approval processes and visually represent allocated bandwidth through Dynamic Spectra scale.

Roles and Responsibilities

Key Functions and Contributions

- Translate business requirements into technical specifications and implement solutions to meet project goals.
- Write modular, maintainable, and high-quality code while following best practices for software development.
- Design and implement APIs and backend services, ensuring scalability and reliability in distributed systems.
- Build dynamic, user-friendly frontends using cutting-edge frameworks and tools.
- Analyze and optimize application performance by profiling code and refining database queries.
- Ensure application security by implementing authentication protocols and addressing vulnerabilities.
- Collaborate with stakeholders to gather feedback, troubleshoot issues, and continuously improve software functionality.