

Contact

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Top Skills

Fine Grained Access Control

Google Zanzibar

IT Cost Optimization

Certifications

DevOps Fundamentals

Oracle Certified Expert, Java EE 6
Web Component Developer

Oracle Certified Professional, Java
SE 6 Programmer

Nishant Desai

Senior Software Engineer @ Protium | Backend & Platform Engineering | Java/Spring Boot, AWS, PostgreSQL | Microservices, APIs, Security & Cost Optimization
Bengaluru, Karnataka, India

Summary

Senior Software Engineer focused on backend and platform architecture, with a strong emphasis on scalable systems, performance, and reliability. Experienced in breaking down complex problems into well-designed microservices, APIs, and database schemas.

Built and evolved secure, observable backend systems on AWS, with a constant eye on cost efficiency. Led optimizations across databases, queues, storage, and compute, delivering significant cost savings while maintaining stability.

Passionate about scalable architectures. Regularly conduct code reviews and mentor junior engineers to raise the bar on design, security, and maintainability.

Experience

Protium

5 years 9 months

Senior Software Engineer(Senior Associate)

June 2024 - Present (1 year 9 months)

Bengaluru, Karnataka, India

Decomposed complex business requirements into scalable microservices, well-defined APIs, and optimized PostgreSQL schemas.

Led API and database design across backend services and frontends, ensuring consistency, performance, and maintainability.

Conducted rigorous code reviews and mentored junior engineers to elevate code quality, design patterns, and engineering practices.

Designed and implemented a Zanzibar-inspired, OPA-driven centralized authorization system, enforcing fine-grained access control across all microservices and frontends.

Drove system scalability with cost efficiency: optimized RDS and SQS usage, reducing AWS spend by \$2,400/month.

Reduced S3 storage costs by \$200/month through lifecycle policies and cleanup of redundant data.

Built a Playwright-based end-to-end testing framework, eliminating ~4–6 hours of manual testing effort per release cycle.

Improved pod memory utilization and reduced cloud costs by \$300/month by analyzing JVM behavior and tuning Prometheus-based monitoring.

Senior Software Engineer(Associate)

July 2023 - June 2024 (1 year)

Bengaluru, Karnataka, India

Implemented comprehensive alerting system across all microservices, routing alerts to OpsGenie via Amazon OpenSearch, CloudWatch, and SNS for efficient monitoring and rapid incident response.

Designed and Developed Automated NACH Presentations for all the loans disbursed in the company(1 lac+) and saved time of ~2 hours per person from Operations team

Software Engineer(Sr. Analyst)

May 2022 - July 2023 (1 year 3 months)

Bengaluru, Karnataka, India

Worked on improving the throughput of the Camunda BPMN tool.

Performance Testing, Performance Enhancements across all core services.

Used RDS Insights to identify slow DB queries and improved query performance.

Worked on decreasing API Latencies, making systems leverage horizontal scaling.

Designed Kibana and Metabase Dashboards to help businesses as well as the tech team to monitor the systems.

Mentored juniors and helped them solve problems

Software Engineer(Jr. Analyst)

July 2020 - May 2022 (1 year 11 months)

Bengaluru, Karnataka, India

Worked as Full Stack Dev for stabilising the existing product journey which was using Tech stack React, Spring MVC and MSSQL.

Joined the core/platform team and helped build the core services which are used across the organisation following best practices of SDLC, API design, DB design and Horizontal Scalability.

Designed systems to leverage AWS offerings like SQS, SNS, SES, and S3.

Intern

June 2020 - June 2020 (1 month)

Bengaluru, Karnataka, India

Designed & Developed a web portal in ReactJs backed by NodeJs & MongoDB. Worked on Spring Boot, AWS Lambda to make API wrappers.

Marg Sahayak

Android Developer

April 2018 - April 2020 (2 years 1 month)

Gandhinagar, Gujarat, India

Road Grievance Redressal System for Roads & Buildings Dept, Govt of Gujarat which consists of two components.

1.) Android app with GIS lookup of roads for civilians to file complaints. (18,000 complaints in 3 days)

2.) A web portal which serves 1400 Officers, backed by a Node JS & MongoDB.

Currently deployed at SDC(State Data Centre) & live in 33 districts of Gujarat Collaborated in a team of 4, attended meetings with government officials, understanding system requirements, developed an android app & worked on ReactJs web portal.

Achievements of this system.

- Runner up at Smart Gujarat Hackathon 2018.
- Winner at "Synergy 2019" an IEEE project presentation contest at DA-IICT.
- Presented to the World Bank as well as exhibited at SSIP annual conference 2019
- Nominated at MHRD IIC's National Exhibition in AICTE Headquarter, New Delhi
- Received GTU Innovation Council Awards-2020

Tech Stack: Android, MongoDB, Express, React, Node JS

Moodcafe

Intern

December 2018 - January 2019 (2 months)

Ahmedabad, Gujarat, India

Worked as an Android developer.

Education

Vishwakarma Government Engineering College

Bachelor of Engineering (BE), Information Technology · (2016 - 2020)