NITISH DADAPURAM

+1(832) 873-8625 ⋄ nitishd8625@gmail.com ⋄ linkedin.com/in/nitish-dadapuram

WORK EXPERIENCE

DevOps Engineer *Apr 2024 – Present*
HPE Data Science Institute *Houston, TX*

- Designed and implemented a Spring Boot based, event-driven microservice for HPC job orchestration, leveraging Apache Kafka for real-time resource-allocation events and improving scheduler throughput by 30%.
- Developed Python scripts for dynamic compute-resource allocation and job scheduling optimization, boosting operational efficiency.
- Designed and implemented automated test and validation scripts for real-time dashboards in Grafana and CloudWatch, improving early detection of system issues.
- Architected CI/CD pipelines with GitHub Actions, Terraform, ArgoCD, and Helm on AWS EKS, enabling zero-downtime, multi-environment deployments and cutting release times by 80%.
- Collaborated with global teams through Agile/Scrum and Jira for sprint planning, ensuring clear communication and on-time delivery of system enhancements.

Software Engineer *Apr 2022 – May 2023*
KiE Square Analytics *Noida, India*

- Designed and implemented Spring Boot microservices with API Gateway optimizations for personal insurance claims and onboarding workflows, reducing P90 latency by 92%.
- Built a scalable audit-logging service on Amazon DynamoDB to track sensitive user actions, ensuring compliance and boosting claims throughput by 60%.
- Secured services with OAuth2 and JWT via Spring Security and integrated AWS KMS encryption for policyholder data, enforcing role-based access and enhancing data privacy.
- Revamped the frontend using Material UI, React Context API, and Redux, leading delivery of a Dark Mode feature and significantly improving user experience.
- Achieved 85% code coverage for personal insurance for UI and backend repositories from 4%, enhancing test coverage and code quality.

Software Engineer *May 2021 – Apr 2022*
Blue Planet InfoSolutions Pvt. Ltd *Remote, India*

- Developed Spring Boot RESTful APIs and GraphQL gateways for booking, reporting, and internal tools, integrating asynchronous eventing via Apache Kafka to eliminate over-fetching and reduce client response times by 40%.
- Optimized PostgreSQL schemas and queries for patient-claim workflows, complemented by Redis caching for high-throughput read operations, reducing API errors under peak load by 80%.
- Containerized services with Docker and orchestrated deployments on AWS EKS using Terraform and Helm, enabling weekly production pushes and cutting manual deployment effort by 75%.
- Devised and executed unit and integration test strategies using JUnit, and Mockito driving code coverage from 50% to 90% across backend and UI layers.
- Deployed Prometheus metrics exporters and Grafana dashboards for end-to-end health monitoring, automating alerting and reducing mean-time-to-resolution (MTTR) by 35%.

SKILLS

Programming Languages	Python, Java, C#, JavaScript, Bash, HTML/CSS
Web & UI Frameworks	React.js, Node.js, Express, Spring Boot, ASP.NET, Flask, Keras, TensorFlow
Databases	PostgreSQL, MySQL, MongoDB, DynamoDB, Redis
DevOps & Cloud	AWS, Azure, Docker, Kubernetes, Jenkins, Terraform, Ansible, Git, Bitbucket, CI/CD
Monitoring	Prometheus, Grafana, CloudWatch, Splunk
Certifications	AWS Certified Solutions Architect, RedHat Certified EX294 (RHCE)

EDUCATION

Master of Computer Science, University of Houston, Houston, TX
Bachelor of Computer Science, National Institute of Technology, Andhra Pradesh, India

PROJECTS

Cloud-Agnostic CI/CD & Infrastructure Automation Platform *Jun 2023*
Automated PDF Table Extraction & Visualization System *Sep 2022*