Naushik Ravikrindi

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Summary

Python-focused Software Engineer with 4+ years of experience building scalable backend systems, cloud-native services, and cross-functional web applications. Skilled in AWS, REST APIs, event-driven architecture (Kafka), and CI/CD pipelines. Adept at agile collaboration and delivering high-impact software solutions.

Experience

Metlife   *Jan 2024 - Present*
Software Engineer   *Charlotte, NC*

- Designed and implemented scalable microservices with **Nodejs**, utilizing **REST APIs** and **Apache Kafka** for robust inter-service communication, enhancing system reliability by 40% and reducing API failure rates by 25%.
- Architected a complex, interactive **React** UI with component-based architecture, improving UI state management and user interactions, leading to a 30% faster load time and 20% increase in user engagement.
- Improved application response time by 30% using **Amazon DynamoDB** for high-performance NoSQL data access, reducing latency from 200ms to 140ms and improving critical operation responsiveness by 35%.
- Configured a **Jenkins**-driven software delivery pipeline for microservices, increasing test coverage from 60% to 85% and reducing deployment time by 20%, which streamlined development cycles by 30%.
- Orchestrated containerized services on **Kubernetes** with Docker, deploying on **AWS** infrastructure (S3, SQS, SNS, Lambda, API Gateway, EC2, ECS), reducing infrastructure costs by 15% and enhancing deployment speed by 40%.
- Wrote **Python** scripts for data validation and deployment automation tasks, improving team efficiency during sprints

Harman Connected Services   *Aug 2021 - Dec 2022*
Software Engineer   *India*

- Designed and constructed RESTful APIs using **Spring Boot** and **React**, reducing API response time by 40% and increasing data handling efficiency by 35%.
- Engineered custom search with **Elasticsearch**, speeding up retrieval and improving accuracy by 30%.
- Optimized backend services using J**ava, Redis,** and **PostgreSQL**, leading to a 25% improvement in processing speed and a 50% reduction in database query times.
- Incorporated **Swagger** for API documentation, reducing onboarding time for new developers by 40% and ensuring standardized API interfaces across 5+ teams.
- Spearheaded the containerization of legacy applications with **Docker**, orchestrated deployment on Kubernetes, boosting system scalability by thrice and cutting server downtime by 60%.
- Automated UI regression tests with **Selenium**, **Junit** and **JMeter** reducing manual intervention by 25% and accelerating release cycles.

Benciti Technology Pvt Ltd   *Jan 2020 - July 2021*
Associate Software Engineer   *India*

- Developed core components of the NUDGEMATH learning engine using **C++** and **Python**, contributing to a scalable education platform used by 10,000+ high school students.
- Built and optimized **JSON**-driven UI modules and backend services, improving rendering and data flow performance by 40%, using tools like **Cocos2d-x**, and RESTful APIs.
- Designed flexible, extensible data models using Python's dynamic typing and serialization libraries to support diverse math problem types and reduce code complexity by 35%.
- Created a modular Python component library to support rapid feature deployment, enabling 60% faster development cycles and consistent UX across the platform.

Projects

Medical Management System (Python & SQL)
- Designed and implemented a role-based access control (RBAC) system to secure patient records and limit access based on user roles.
- Utilized Python and SQL to optimize database queries, improving system performance by 30%.

Trading Platform (MERN Project)
- Developed a peer-to-peer item trading platform, allowing users to list, search, and exchange items securely using React and Node,MongoDB and Express.
- Integrated a secure messaging system and user rating mechanism, enhancing trust and engagement on the platform.

Education

University of North Carolina at Charlotte   *2024*
Masters of Science in Information Technology   *Charlotte, NC*

Skills

Languages: C++, Java, Python, JavaScript, TypeScript, Batch Script, Shell Script, Bash, HTML, CSS, Spring Boot, React, Angular, SQL
Frameworks: Kubernetes, Docker, Git, Jenkins, GitLab CI, Redis, Flask, AWS (S3, Lambda, EC2, ECS, API Gateway), Prometheus, Postman, MongoDB, MySQL, PostgreSQL, SQL Server, NoSQL, Grafana, Webhooks, Kafka, GraphQL, Elasticsearch, Swagger UI, JUnit, Selenium, JMeter
Development Practices: Agile (Scrum, Kanban), CI/CD Pipelines, Test-Driven Development (TDD), Behavior-Driven Development (BDD), Version Control (Git, GitLab)
API Development/Security: REST, GraphQL, OAuth, JWT, API Security
Cloud/DevOps: AWS, Docker, Kubernetes, Jenkins, CI/CD Pipelines