NIKHIL GANDE

Software Engineer

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EXPERIENCE

Associate Software Engineer

Bank of Montreal (BMO -TCS)

📅 11/2020 - 12/2022   📍 Chicago, USA

- Migrated APIs from legacy Java Servlets to AWS Lambda using Java, improving scalability, reducing infrastructure overhead, and leveraging serverless architecture for cost efficiency and performance optimization
- Leveraged AWS API Gateway as the front-end to handle all incoming requests, offloading authentication, authorization, and throttling management, while triggering AWS Lambda functions for serverless processing, reducing infrastructure complexity and enhancing security and performance
- Optimized Account Management System by refactoring database queries and implementing asynchronous processing using Spring Boot's @Async annotation, resulting in a 40% improvement in transaction processing speed and a 25% reduction in customer complaints related to delays
- Implemented cache layer with AWS Redis, reducing latency by 20% and decreasing database load, enhancing overall application performance and responsiveness
- Dockerized Spring Boot application, enhancing portability and simplifying deployment, which increased deployment frequency by 30% and facilitated easier feature additions and testing, resulting in faster iteration cycles
- Deployed containerized applications to AWS ECS Fargates, to manage container orchestration without managing servers. This reduced infrastructure overhead, enabled seamless scaling, high availability and fault tolerance.
- Used JIRA for tracking tasks and managing agile workflows, and Bitbucket for version control and collaboration on code repositories

Junior Software Engineer

Coreobject Soft Systems And Services Private Limited

📅 01/2019 - 10/2020   📍 Bangalore, India

- Utilized Redux to manage global authentication state with JWT tokens stored in local Storage, ensuring login persistence across page reloads and enhancing security while reducing session-related issues by 40%
- Implemented debouncing and Redux caching in React to optimize API calls for search functionality, reducing unnecessary requests by 60%, improving server performance, and providing a faster, more responsive user experience
- Developed serverless AWS Lambda functions in Java to handle synchronous and asynchronous events from various sources like API Gateway, SQS, Event Bridge etc
- Wrote unit tests for Lambda function using JUnit and Mockito to stub external calls (95% of code coverage) to validate the code and to find edge cases and reduce production bugs
- Created and configured API Gateway using Swagger to define HTTP methods, URL endpoints, request validation, and authentication with API keys
- Implemented usage plans for rate limiting, ensuring secure and efficient API traffic management
- Used AWS SQS to store events from various sources and deliver them to Lambda for processing (with automatic scaling)
- Leveraged long polling to fetch batch data, reducing the number of calls and improving efficiency
- Used AWS S3 to store object data in a hierarchical structure and implemented CORS for secure access from front-end applications
- Leveraged DynamoDB for efficient data storage and retrieval, ensuring fast, scalable access to application
- Leveraged AWS CDK (Typescript) for Infrastructure as Code (IaC) and implemented Blue Green Deployment to automate traffic distribution(V1 to V2) during new release
- Used AWS CloudWatch to store logs, create dashboards, and generate alarms, integrated with EventBridge to trigger events and handle real-time errors in production
- Used Bitbucket as the version control system and implemented webhooks to automate deployments based on repository events, ensuring efficient and streamlined CI/CD processes (CodeBuild, CodeDeploy)
- Utilized SoapUI for testing and validating the APIs, ensuring functionality, reliability, and compliance with business requirements

EDUCATION

Master of Science in Computer Science

University of Missouri-Kansas City

📅 01/2023 - 12/2024   📍 Kansas City, MO, USA

SUMMARY

I'm a software engineer who thrives on building scalable, high-performance applications that improve user experiences and simplify business processes. I've worked on everything from modernizing legacy systems to optimizing performance and creating solutions that are both efficient and reliable. I'm passionate about cloud computing, serverless architecture, and microservices, and I love collaborating with teams to tackle challenges and continuously improve. My goal is to deliver robust, future-ready solutions that make a real difference.

CERTIFICATION

AWS Certified Developer Associate

PROJECTS

Insight Dash – One Click Dashboard Generation Site

📅 01/2024 - 04/2024   📍 Kansas City, United States

Python, Flask, HTML, CSS

- It is a web application that offers comprehensive data profiling features, enabling users to quickly access key statistics like null values and data types, facilitating a deeper understanding of company data without complex tools. · After uploading the clean data, then the dashboard gets generated on the web page

AAROGYA

📅 01/2018 - 04/2018   📍 Hydera, India

HTML, CSS, JAVASCRIPT, PHP, BOOTSTRAP, MYSQL,

- This project aims to facilitate blood donation by connecting users with nearby donors and blood banks through an application

SKILLS

Agile	Amazon Web Services	Apache
Apache Kafka	API	API Gateway	AWS S3
AWS ECS	AWS Lambda	Bitbucket
Bootstrap	Caching	CI/CD	Cloudwatch
CSS	CI/CD	Docker	Dynamodb	JIRA
Git	Github	Graphql	HTML	Iac
Java	Javascript	JIRA	Junit	JWT
Kafka	Spring Boot	React	Redux
Maven	Microservices	Mockito	Mongodb
Mysql	Node.js	

CODEBASE & PORTFOLIO

🌐 **GitHub**
https://github.com/NikhilGande/

🌐 **Portfolio**
https://nikhilgande.github.io/my-portfolio/