**Nikitha Gangapuram**

[linkedin.com/in/nikithagangapuram1](https://www.linkedin.com/in/nikithagangapuram1)

**rohitb@interaslabs.com** |614-992-8709

**PROFESSIONAL SUMMARY**

* Professional experience in the SDLC including analysis, design, development, implementation, testing, maintenance, and documentation.
* Experienced in working in various environments using Agile (Scrum) and Test-Driven Development (TDD) development methodologies.
* Established a culture of test automation and continuous integration (CI) by integrating TDD practices with CI/CD pipelines, ensuring that every code change is accompanied by automated tests and validated through automated builds.
* Enhanced critical backend services through the application of efficient algorithms and data structures, resulting in a 30% decrease in processing time.
* Conducted code reviews with a focus on testability and test coverage, providing feedback on unit test quality, readability, and adherence to TDD principles to promote a culture of quality craftsmanship.
* Extensively worked on n-tier architecture systems with application system development using Java Script, Angular 14, Node, JDBC, JSP, Web services.
* Experienced in Jenkins, Git, GitLab, Selenium and JUnit to support source control system for development needs.
* Utilized DynamoDB for NoSQL data storage to enable low-latency access and scalability.
* Ensured consistent environments across development and production by implementing Docker containers for application packaging.
* Improved deployment speed and reliability by automating infrastructure provisioning and management with AWS CloudFormation.
* Experienced in working on DevOps teams and help automate server and infrastructure configurations using shell scripting and building Docker Images.
* Containerized existing applications using Docker, allowing for easy deployment, and scaling across different environments, including development, testing, and production.
* Experience with Cloud Computing Service environment like AWS (Amazon Web Services) (Amazon Web Services) (EC2, EBS, S3 and ELASTIC SEARCH).
* Guided the transition of outdated systems to Java 11, boosting performance, security, and sustainability throughout the platform.
* Orchestrated multi-container Docker applications using Docker Compose, simplifying the management of interconnected services and dependencies in local development environments.
* Proficient in UI (User Interface) design developed Front End using HTML5, CSS3, Java Script, Angular 14, Node JS and React JS. • Experienced in automated deployment tools such as Kubernetes which is used to deploy quickly.
* Hands on experience in building Docker images and deploying them in Kubernetes cluster platform.
* Deployed Docker containers to production environments using orchestration tool Kubernetes, ensuring high availability, scalability, and fault tolerance.
* Implemented security best practices for Docker containers, including image scanning, vulnerability assessment, and runtime security measures to protect against potential threats.
* Expertise in the entire software Development Life Cycle (SDLC) and have strong hands-on experience in Object Oriented Analysis & Design.
* Developed scalable, multi-threaded applications using Core Java, while incorporating best practices for object-oriented design and architecture.
* Maintained security compliance across cloud deployments.
* Analyzed AWS resource usage to identify and implement cost-saving measures.
* Responsible for developing the UI pages using Angular 14, HTML5, CSS3, and Java Script.
* Handled response data from RESTFUL web services using JSON and jQuery to update UI Interacted with java controllers.
* Created GET/PUT request and response using RESTFUL web services.
* Experienced in using Git, Bitbucket, Clear Case, RTC and VSS for version control.
* Expertise in database modeling and development using No SQL Database such as MongoDB.
* Developed automated unit tests using testing frameworks such as JUnit covering critical paths and edge cases to ensure comprehensive test coverage and minimize regression risks.

**Certifications:**

Microsoft Certified: AZURE Administrator Associate.

**EDUCATION**

Bachelor of Technology JNTU, Hyderabad, India

Webster University Master’s Degree, computer science

**Technology Skills:**

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| **Programming languages:** | Python, Angular, Node JS, R, C++, Java, Java Script, MongoDB, SQL, HTML&CSS, Jenkins, Kubernetes, Kafka, MySQL, React JS. |
| **Project management:** | Project Initiation, Planning, Execution, Monitoring and Closure. Change Management and Knowledge Management, Agile Methodology, Kanban. |
| **Software:** | AWS, Eclipse IDE, Visual Studio, MS Access, MS Excel, MS Word, MS PowerPoint, Oracle, MySQL, Splunk. |

**PROFESSIONAL EXPERIENCE**

**Company: Interas LLC**

**Role: Sr Full Stack Java Developer. August 2023 – Present**

**Client: Quest Diagnostics, NJ**

**Quest Diagnostics:** Developed a robust Java application that involves addressing specific problems. The application will utilize Java's core features and libraries. Designed and implemented infrastructure to manage development and scaling with CI/ CD pipelines for automated provisioning in managing scalable, reliable and secure cloud infrastructure.

**Responsibilities:**

* Involved in meetings with the business team to gather the requirements and understood the business criteria.
* Performed requirement analysis, design, development, and testing of the application using AGILE methodology.
* Attended daily SCRUM sessions with the team to discuss the progress of the application to meet the business deadlines.
* Monitored and optimized performance of AWS services to maximize resource utilization.
* Collaborated with various teams to establish and implement cloud architecture best practices.
* Enhanced deployment processes by developing CI/CD pipelines using AWS Code Pipeline and CodeBuild.
* Engaged in developing the UI by using HTML, jQuery, Angular 8 and Java Script and used AJAX to make calls to other services.
* Established JDBC connections for interacting with MySQL/Oracle databases to ensure smooth data manipulation and retrieval for large-scale applications.
* Experience working with AWS S3, EC2, ECS, Elastic Beanstalk, EKS, EMR, SQS/SNS, AWS Lambda including entitlement and IAM policy.
* Experience with deployment in the AWS cloud.
* Developed server less applications on Lambda, focusing on efficiency and cost-effectiveness.
* Planned and executed micro-services architectures using Amazon ECS and Fargate to improve scalability and maintainability.
* Developed complex PL/SQL stored procedures, functions, and triggers to automate data processing tasks, improving database performance and reliability.
* Experience in AWS cloud infrastructure database migration, PostgreSQL and converting existing ORACLE and MySQL server databases to PostgreSQL, MySQL and Aurora
* Experience in developing and supporting with API Management tool – APIGEE
* Good Understanding of APIGEE architecture.
* Used Angular 8 to build the UI components, developed filters to display different dimensions of data and font size modifiers Developed container components as the logic layer for the UI components.
* Developed various screens for the front end using Angular 8 and used various predefined components from NPM (Node Package Manager) and redux libraries.
* Experienced in developing customized policies in Apigee Edge and developing API's in Apigee Baas.
* A user provision script developed using Nodejs which includes fetching files from SFTP server and creating users in l dap and database using rest API calls.
* Worked Extensively with Angular CLI for creating components, Services, pipes, Directives.
* Used Node.JS to structure Java Script code to build Restful web services.
* Implemented generating the verification hash code using crypto package on Node.JS
* Developed modules using Core Java APIs, Collections, Java 1.8(Streams), Jordan API (Dates), Multi- threading, Exception Handling, Generics, Enums, Java I/O and object-oriented designs patterns
* Used Lambda Expressions for communicating between business layer and database and coded in java 1.8.
* Applied Java 11 Stream API for Bulk Data Operations on Collections using both Streams and Parallel Streams.
* Implemented unit tests and automated testing suites using JUnit and Mockito, ensuring code reliability and facilitating regression testing.
* Developed business components by using Spring Boot, Spring IOC, Spring AOP, Spring Annotations, Spring Cloud & Persistence layer by using Hibernate/JPA along with Web Services (RESTful).
* Implemented customized authentication in Spring Security to verify user-role and secure the user pages.
* Created architecture towards a Microservices approach using RESTful Web-Services by using Spring Boot.
* Orchestrated microservices deployment and management using Kubernetes, automating deployment pipelines, and enabling seamless scaling based on demand.
* Conducted performance tuning and optimization of microservices, analyzing bottlenecks and implementing caching strategies to improve response times and reduce resource consumption.
* Established CI/CD pipelines using Jenkins or GitLab CI to automate the build, test, and deployment processes, reducing manual errors and accelerating time to market.
* Used JAX-RS for creating Restful web service and implemented authentication by using OAuth2 Security Framework.
* Used Java 1.8 Lambda expressions and Stream API to support functional-style operations on streams of elements.
* Worked on Java functional programming concepts like Streams, Functional Interfaces, new date time API Development and lambda expressions.
* Facilitated seamless communication between services by integrating API Gateway for RESTful APIs.
* Implemented security measures such as OAuth 2.0 and JWT authentication to secure microservices communication and protect sensitive data.
* Implementation of Hystrix circuit breaker to avoid loss of messages during handling of messages at consumer level
* Implementation of Zulu Proxy as the API gateway.
* Used Microservice architecture with Spring Boot-based services interacting through a combination of REST and Apache Kafka message brokers.
* Developed and consumed REST APIs for third party providers to get the data from client side using Oracle ADF framework.
* Performed Unit testing to check the performance of REST API.
* Deployed Spring Boot-based microservices Docker container using Amazon EC2 container services and using AWS admin console.
* Managed Docker images and repositories using Docker Hub or private Docker registries, implementing access controls and versioning strategies to ensure security and traceability.
* Configure Jenkins build Jobs for (CI) and (CD)

**Environment:** Java 11, Spring 5, Hibernate 4.2, Spring batch, Spring Boot, Microservices, MongoDB, JPA, Angular 8, HTML5, CSS3, Eclipse, SQL Server, Swagger UI, Log4j, Jenkins, JIRA, AWS Services, Pure XML, Web Services, Kafka, REST UI.

**Role: Sr Full Stack Java Developer. November 2021 – June 2023**

**Client: Egen, Naperville, IL**

**Responsibilities:**

* Developed interactive and responsive web applications using modern Java Script frameworks such as
* React.js or Angular, ensuring cross-browser compatibility and optimal performance.
* Actively involved in Analysis, Design, Development, System Testing & User Acceptance Testing. Successfully followed Sprint planning and estimation for user stories in Agile Environment.
* Designed and Developed enterprise level angular component libraries such as data -tables, autosuggestion, pagination etc. Implemented React JS on server-side validations, to handle actions and Events and
* Encapsulation.
* Implemented responsive web designs using CSS frameworks like Bootstrap, ensuring consistent layout and styling across various screen sizes and devices.
* Optimized SQL queries by rewriting and indexing, reducing execution time by up to 50% for high-volume data transactions.
* Worked on a SAFE AGILE based methodology which brings innovative approaches and changes to the team every PI.
* Developed and designed the web interface using HTML5, CSS3, Java Script, jQuery, ReactJS, and Bootstrap.
* Built the reusable service components using ReactJS Components with Object Oriented Java Script, jQuery, HTML, CSS3 based on the visual designs.
* Developed various ReactJS components to help build the functionality and UI behavior using Java Script.
* Used Redux as a store for storing multiple states of a React component.
* Worked with unit testing of ReactJS applications using Jest and Spring Boot applications using JUnit, Mockito and performed end to end testing using Protractor.
* Ensured high availability and security by managing EC2 instances for hosting applications.
* Worked on POC of high-end APIGEE innovative proxies and On-boarding API's.
* Used APIGEE Management APIs for certain operations.
* Designed FACADE design patterns for APIGEE using JAVA platform.
* Expert in PHP Joomla Drupal and MySQL with database analysis and design.
* Re-designing/ developing the main website to improve user experience and add new functionality and converting from PERL to PHP.
* Used Redux Think as a middleware for calling the APIs and setting the states with the JSON data.
* Worked with UI designers and User experience team to define screen designs. Developed angular partials based on UI screens.
* Designed and implemented PL/SQL packages for data migration and transformation, enabling seamless integration between legacy and modern systems.
* Consumer APIs communicate to other services or API via APIGEE proxy, and some consumer's use Rabbit MQ as a medium to delegate messages.
* Thoroughly used Java 1.8 lambdas, HTML5 and CSS3 for application development.
* Developed the application using Java 8 and implemented its features like lambdas Expressions, Time API, Streams,
* functional interfaces, collectors, default methods, type interfaces
* Used a multithreaded environment to run processes asynchronously using different future calls to access the data.
* Extensively used various Spring Framework modules like MVC, Dependency Injection (IOC), Auto Wiring, Spring Security and AOP. Created and injected spring services, spring controllers and DAOs to achieve dependency injection and to wire objects of business classes.
* Spring Boot Microservices were developed using Microservice architecture with RESTFUL and Apache Kafka.
* Exceptionally handled heavy traffic with the help of Spring Ribbon and Kafka broker service.
* Employed fail safe and circuit breaker patterns for the first time in Client’s email applications using Hystrix and Hystrix Dashboard in Spring Boot Microservice Applications.
* Implemented functionalities using Spring IO / Spring Boot with Thyme leaf and Hibernate ORM.
* Spring security is used for authorization/authentication, session fixation, clickjacking, cross site request forgery.
* Migration of Existing Application to AWS cloud. Used Amazon Web Services (AWS) like EC2, S3, RDS, cloud watch and CloudFront for promoting code in various environments.
* Experience in writing PL/SQL Stored procedures, Functions, Triggers and Complex SQL’s

**Environment:** Agile, Java 8, Spring 5, Spring Boot, Git, hibernate 4.2, SOAP, XML, AWS, Microservices, Data Structures and Algorithms, Java Script, XHTML 1.0, AWS Services, Design Patterns, JUnit, REST, Web Services, ANT, Eclipse 4.3, Oracle 11g/12c, Apache Tomcat.

**Role: Java Full Stack Developer. October 2019 – August 2021**

**Client: Honeywell Forge.**

**Responsibilities:**

* Designed User Interface using HTML5, jQuery, and CSS3. Involved in developing functions to acquire data from API server.
* Involved in design, analysis, and development and testing phases of the software development lifecycle.
* Followed Agile (Scrum) methodology for project development. Involved in Sprint planning, estimation of tasks for User Stories, daily scrum meetings, and end of the sprint demos and sprint retrospective.
* Streamlined application processes by automating complex workflows with AWS StepFunctions.
* Worked in developing the SPA (Single Page Application) UI screens using Angular 8, CSS3, HTML5.
* Designed dynamic client-side Java Script codes to build web forms and simulate process for web application, page navigation and form validation to fill the prescription details.
* Collaborated on creating Typescript reusable components and services to consume REST API's using Component based architecture provided by Angular.
* Contributed to iterative planning and execution of cloud-based solutions by participating in agile development processes.
* Ensured high availability and security by managing EC2 instances for hosting applications.
* Developed a prototype UI with ReactJS and its Redux store to make some of the UI components and pa ges more responsive for the web.
* Performed functional and integration testing, extensively involved in release/deployment related critical activities. Setup the continuous Integration (CI) and continuous deployment (CD) jobs in Jenkins.
* Created the Docker containers locally to debug the app.
* Used Jira to keep track of bugs and work in progress.
* Adopted Test-Driven Development (TDD) practices within the development team, leading to improved code quality, faster feedback loops, and reduced defect rates.
* Developed test cases and performed unit testing using Karma & Jasmine at Server side and Mocha in client-side following test-driven development (TDD).
* Integrated TDD into the software development lifecycle (SDLC), aligning test cases with user stories or requirements during sprint planning and leveraging tests as living documentation for system behavior.
* Responsible for design and maintenance of the Git and GitHub repositories and the access control strategies for version controlling and collaboration.
* Maintained build/config files to handover deployment to dev-ops team making deployment process a lot easier.

**Environment:** Java 8, HTML5, CSS3, Bootstrap, jQuery, Angular, Aws, React JS, MongoDB, JMS, Spring Cloud Config, SASS, Hibernate, Spring AOP, Karma, Jasmine, Mocha, GIT, Tomcat.

**Role: Full Stack Developer. October 2016 – September 2019**

**Client: Tech Mahindra Ltd.**

**Responsibilities:**

* Hands on experience in Angular 7, Python, Node JS, Java 8, MySQL, Unix and Linux. Involved in
* Designing, Developing, Testing of the NAD (New Age Delivery) application.
* Worked extensively in User Interface of NAD application Devised a cost estimator that reduced the financial report preparation time by 63% by automating the entire process and leveraging Python, SQL, HTML5 & CSS3
* Involved in development of pods in NAD such as UaaS (Upskilling as a Service), DTa S(Design Thinking as a Service), DiCD(Digital inside Continuous Delivery), MePS(Micro Service enabled Portfolio Services) using Java 8, Angular 7.
* Provided training and support on AWS services and containerization practices to team members.
* Enabled proactive incident management by utilizing CloudWatch for logging and monitoring.
* Experienced in Big Data Technologies, Software Development Life Cycle (SDLC), Agile Methodologies.
* Integrated third-party libraries and APIs to extend the functionality of Java application and streamline development processes.
* Used Maven as build and configuration tool and Jenkins for a continuous integration tool.
* Used JIRA to keep track of the work in progress and managing backlog.
* Professional in designing, developing, and enhancing automated test scripts for Selenium using Python.
* Experienced in Working on the server side of the application using Java 8.
* Excellent working knowledge of designing & implementation of detailed technical specification, business requirements and unit test report documents.
* Used the High charts Java Script library to develop charts, maps, and graphs on UI pages.
* Actively Involved in testing process and performed Unit testing and System testing.
* Used the Apache tomcat as deployment server.
* Worked as an Application developer to implement business logic using various MEAN stack and deployed successfully in production. Have been part of the offshore team. I have worked in development to validate Business results.
* Involved in deploying the application on development and Staging environments.
* Proficient in communicating with the project teams and clients.

**Environment:** Angular 7, Python, Node JS, Java 8, Aws, MySQL, Unix, Linux, Python, Jenkins, JIRA, HTML5, CSS3, Bootstrap, Java Script, Apache tomcat.