**Nithin Narendula**

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**Golang Developer**

**PROFESSIONAL SUMMARY:**

* Over 9+ years of specialized experience in Web Application Development and Design using modern programming languages, with a strong focus on Golang.
* Proficient in building responsive web product features utilizing React JS, SASS, and Golang with RESTful architecture.
* Developed enterprise-wide DNS historical data trending analysis tools using Golang, providing REST API support for user queries as microservices.
* Enhanced test automation efficiency by developing a distributed resource management system in Erlang.
* Improved user experience and visibility for a distributed resource manager through the development of an asynchronous web portal using YAWS, Erlang, and AJAX.
* Experienced in creating command-line tools for interacting with RESTful APIs using Golang.
* Developed various web applications employing ClojureScript for front-end and J2EE, Servlets, Elixir, Erlang, and Clojure for backend services.
* Designed internal diagnostic tools using Golang and AngularJS to assist with resolving customer issues.
* Utilized Golang and Java for backend REST services and AngularJS for user interfaces.
* Implemented and maintained systems built with Erlang, CouchDB modules, PostgreSQL, CoffeeScript, and BackboneJS.
* Developed and implemented Web Services (WSDLs) and REST services using JAX-WS and Golang within a microservices architecture.
* Demonstrated expertise in leading Frameworks Team and mastery over Angular.js, Backbone.js, Bootstrap.js, D3.JS, ReactJS, and NodeJS.
* Hands-on experience in Web Application development with HTML, CSS, JavaScript, jQuery, AJAX, and JSON.
* Skilled in high-level design compliant with UML, including data flow diagrams, class diagrams, sequence diagrams, activity diagrams, and use cases.
* Strong leadership, technical, communication, analytical, and problem-solving skills with proficiency in engaging with diverse cultural backgrounds.
* Proficient in deploying and managing Google Cloud Platform (GCP) resources, including Compute Engine instances and Kubernetes clusters, for scalable and resilient cloud architectures.
* Implemented automated CI/CD pipelines with Google Cloud Build and Jenkins to ensure efficient deployment processes.
* Developed JavaScript frameworks for building web pages using Angular JS, Backbone, Bootstrap, Node.JS, and React.JS to enhance browser-based applications with MVC capability.
* Experience with Docker components such as Docker images, Docker Engine, Docker Hub, Docker Machine, Docker Compose, and Docker Registry.
* Designed and developed SOA enterprise systems using Oracle SOA Suite.
* Adopted agile methodologies and SCRUM techniques for effective requirement management and application enhancement.
* Implemented continuous deployment systems using Jenkins, AWS CodeDeploy, OpsWorks, and Packer for Java application deployments.
* Created middleware solutions using Google App Engine with Python.
* Proficient in using the latest tools and technologies in cloud services, containerization, and continuous integration/continuous deployment (CI/CD) processes.
* Expertise in scalable cloud architecture, deploying applications in cloud environments such as AWS, Google Cloud, and Azure.
* Knowledge of advanced programming techniques and frameworks to ensure efficient and scalable code.
* Committed to following best practices in code quality, security, and maintainability.

**TECHNICAL SKILLS:**

* **Programming Languages :** Golang, Java, JavaScript, Shell Scripting
* **Web Frameworks :** Echo, Gin, Beego, React, Angular 14+
* **Databases :** PostgreSQL, MongoDB, MySQL, Redis, Cassandra
* **ORM Frameworks :** GORM, SQLBoiler, XORM
* **Web Technologies :** RESTful Services, GraphQL, gRPC, HTML5, CSS3, AJAX
* **Application Servers :** Docker, Kubernetes, Apache, Nginx
* **Build Tools :** Bazel, Make
* **Testing Tools :** GoConvey, Ginkgo, Terratest, JUnit 5, Selenium
* **Version Control :** Git, Bitbucket, GitLab
* **CI/CD Tools :** Jenkins, GitLab CI/CD, CircleCI, GitHub Actions
* **Containerization :** Docker, Kubernetes, Docker Swarm
* **Cloud Platforms :** AWS, Google Cloud Platform, Azure
* **IDEs :** Visual Studio Code, GoLand, Atom
* **Operating Systems :** Linux (Ubuntu, Fedora), macOS, Windows
* **Messaging Systems :** Apache Kafka, NATS, RabbitMQ
* **Methodologies :** Agile, Scrum, Test-Driven Development (TDD), DevOps

**PROFESSIONAL EXPERIENCE:  
Client: JPMC,** **New York, NY. Apr 2022 to till date**

**Role: Golang Developer**

**Roles & Responsibilities:**

* Developed and maintained robust gRPC and RESTful microservices using Go, enhancing system architecture and improving service efficiency.
* Implemented gRPC and REST-based web services using MUX router, which were consumed using HTTP services to ensure seamless data exchange.
* Employed Wait Groups, goroutines, and channels in programming to boost the overall performance of applications, leveraging Singleton and Interface design patterns.
* Secured gRPC and RESTful web services using SAML and JWT tokens to safeguard data integrity and privacy.
* Designed comprehensive test cases to validate application functionality through meticulous unit testing.
* Executed unit test cases using the 'testing' and 'testify' packages in Go to ensure code accuracy and reliability.
* Optimized specific programs by integrating goroutines in APIs, significantly enhancing performance across a broad range of applications.
* Gathered requirements from clients, analyzed them, and prepared detailed Requirement Specification Documents.
* Developed microservices in Golang to efficiently process extensive data from various databases, including PostgreSQL and MySQL.
* Completed migration of critical microservices from Python to Golang in a two-week sprint, resulting in 30% reduced memory usage.
* Delivered secure gRPC and RESTful web services within a one-week sprint, enhancing data integrity using SAML and JWT tokens.
* Deployed and managed Google Cloud Platform (GCP) resources, including Compute Engine instances and Kubernetes clusters, to support the development and deployment of microservices-based applications.
* Implemented scalable and resilient cloud architectures on GCP, utilizing Kubernetes for container orchestration and Google Cloud Load Balancing for efficient traffic distribution.
* Designed and developed RESTful APIs using Golang and deployed them on GCP App Engine, ensuring high availability and scalability of backend services.
* Integrated Google Cloud Storage (GCS) for efficient storage and retrieval of application data, ensuring data integrity and security compliance.
* Developed and deployed microservices using Golang on Google Cloud Platform (GCP) to enhance the scalability and performance of the bank's critical applications, ensuring high availability and reliability.
* Implemented automated CI/CD pipelines using Google Cloud Build and Jenkins, significantly reducing deployment times and increasing the efficiency of the development and release process for various banking applications.
* Collaborated with cross-functional teams to integrate Google Cloud Storage and Cloud SQL into existing systems, optimizing data storage and management, and improving overall application performance and data accessibility.
* Configured Google Cloud SQL for PostgreSQL to manage relational databases, optimizing query performance and ensuring data consistency.
* Automated CI/CD pipeline in a three-week sprint using Docker and Jenkins, reducing deployment times by 40%.
* Developed data processing applications with goroutines and channels in a two-week sprint, improving concurrency handling.
* Enhanced existing microservices infrastructure by redesigning data pipelines, thus improving data handling and processing efficiency.
* Utilized Continuous Delivery/Continuous Integration tools such as Docker and Jenkins to deploy applications seamlessly to AWS.
* Rewrote several microservices from Python to Golang, achieving substantial increases in throughput and reductions in memory usage.
* Developed applications capable of handling concurrent data collection and processing with goroutines and channels for a WIFI device using Golang.
* Created Docker images and managed Docker container snapshots, including the removal of images as needed.
* Assisted in the development of APIs in Go using Protocol Buffers and gRPC to streamline communication protocols.
* Applied the messaging format protobuf for high-performance data interchange.
* Implemented various Golang libraries such as go-fmt, go-vet, and go-dep, and addressed race conditions by implementing the race flag.
* Developed a container platform for Kubernetes using Go, facilitating scalable and efficient container management.
* Implemented routing techniques in Golang using the Gorilla mux as a request router and dispatcher, effectively matching incoming requests to their respective handlers.
* Generated server-side code based on open API specifications using Go-Swagger to create robust and scalable server applications.
* Developed multiple services that interacted with each other using RESTful endpoints with JSON as the data exchange format.
* Created an RPC-based service for reading large volumes of data from PostgreSQL using Go, optimizing data retrieval processes.
* Manually executed test steps defined in test cases and reported bugs in JIRA, contributing to continuous improvement of software quality.
* Collaborated closely with cross-functional teams to ensure the successful integration of new technologies and practices into existing systems.

**Environment:** Docker, Jenkins, Protocol Buffers, Go-Swagger, and Gorilla mux.

**Client: Mindoula,** **Silver Spring, MD Sep 2020 to Mar 2022**

**Role: Golang Developer**

**Roles & Responsibilities:**

* Developed web services using the Beego framework, leveraging gRPC and Protocol Buffers to ensure robust, scalable communications.
* Created applications designed to handle concurrent data collection and processing using Goroutines and channels tailored to different business models.
* Utilized MongoDB to store and manipulate document-based data efficiently, enhancing application performance.
* Designed network architectures for Kubernetes pods and containers, implementing load balancers to manage data influx effectively.
* Implemented Kafka producer and consumer applications on a Kafka cluster using both Producer and Consumer APIs for reliable message handling.
* Employed Redis for caching frequently queried tasks, optimizing response times and resource utilization.
* Managed persistent storage solutions using Cassandra, ensuring data durability and scalability.
* Authored Web API controllers to provide RESTful services, enhancing interoperability within microservices architectures.
* Configured and managed Google Cloud Platform (GCP) infrastructure, including Virtual Private Cloud (VPC), Compute Engine (EC2), and Storage (S3), using CloudFormation templates.
* Implemented scalable and resilient cloud architectures on GCP, leveraging Kubernetes for container orchestration and load balancing.
* Designed and deployed microservices on GCP Kubernetes Engine, enhancing application performance and scalability.
* Automated deployment pipelines using Google Cloud Build and Jenkins, achieving continuous integration and delivery (CI/CD) for applications running on GCP.
* Utilized Google Cloud Storage (GCS) for efficient storage and retrieval of application data, ensuring high availability and durability.
* Implemented monitoring and logging using Google Cloud Monitoring and Logging services, facilitating proactive system management and troubleshooting.
* Containerized applications using Docker, streamlining deployment processes into Kubernetes clusters.
* Produced asynchronous messages across multiple Go routines using Kafka APIs, facilitating efficient inter-service communication.
* Designed common protobuf files utilized by various services to standardize data structures and simplify maintenance.
* Integrated with an in-house big data framework using Apache Spark for aggregating and processing large datasets.
* Managed the scheduling, deploying, and maintaining of container replicas on nodes using Kubernetes, gaining proficiency in cluster management.
* Developed single-page applications (SPAs) using ReactJS and Flux, focusing on user interface design and front-end performance.
* Conducted unit and integration testing in development environments to ensure applications met technical specifications.
* Set up and managed AWS infrastructure, configuring resources like VPC, EC2, S3, IAM, EBS, Security Groups, Auto Scaling, and RDS using CloudFormation templates.
* Developed concurrent web services with Beego and gRPC in a two-week sprint, enhancing system performance.
* Implemented Kafka producer and consumer applications in a three-week sprint, ensuring reliable message handling.
* Designed Kubernetes network architectures in a two-week sprint, optimizing data traffic management.
* Containerized applications using Docker in a one-week sprint, facilitating seamless deployment into Kubernetes clusters.
* Implemented GoMock for mocking client calls during unit testing, increasing test reliability and speed.
* Collaborated with the DevOps team to configure Jenkins jobs for automated builds and deployments, enhancing CI/CD pipelines.
* Integrated Jenkins with Git to trigger automated builds upon new pull requests, supporting continuous integration practices.
* Interacted with third-party applications using Postman as a RESTful client, streamlining API testing and integration workflows.
* Participated in designing and implementing Google Cloud infrastructure, ensuring optimal performance and scalability of cloud-based resources.

**Environment:** Beego, gRPC, Protocol Buffers, Goroutines, MongoDB, Kubernetes, Kafka, Redis, Cassandra, Docker, ReactJS, Apache Spark, AWS (CloudFormation, VPC, EC2, S3, IAM, EBS, Security Groups, Auto Scaling, RDS), GoMock, Jenkins, Git, Postman, and Google Cloud.

**Client: Starbucks, Seattle, WA Oct 2017 to Aug 2020**

**Role: Java Developer**

**Roles & Responsibilities:**

* Spearheaded the development of e-commerce platforms using Java, enhancing online shopping experiences for customers.
* Employed Spring Framework 5.x for robust application context management, facilitating seamless service integration.
* Utilized Angular 7 for creating dynamic and engaging user interfaces, improving customer interaction with the platform.
* Integrated Hibernate 5.x for efficient object-relational mapping, optimizing database transactions and queries.
* Designed and implemented RESTful Services, enabling secure and scalable data exchange across e-commerce systems.
* Configured Apache Tomcat 9 as the web server, ensuring optimized performance for high-traffic e-commerce operations.
* Managed build and dependency processes with Maven 3.x, streamlining development workflows for the e-commerce platform.
* Conducted comprehensive testing with JUnit 5, assuring the reliability and quality of e-commerce applications before launch.
* Leveraged Oracle 12c for data storage, ensuring robust and secure management of customer and transaction data.
* Adopted IntelliJ IDEA 2019 for development, benefiting from enhanced features for efficient coding and debugging.
* Implemented version control with Git, facilitating collaborative development and feature integration on the e-commerce project.
* Utilized Docker for containerizing e-commerce applications, improving consistency across development, testing, and production environments.
* Deployed applications on AWS, leveraging cloud scalability and reliability for the e-commerce platform.
* Ensured system compatibility and optimal performance by developing on Linux (Ubuntu), catering to diverse operational requirements.
* Adopted Agile methodologies for project management, enhancing team collaboration and timely delivery of e-commerce solutions.
* Streamlined continuous integration and deployment processes, ensuring rapid updates and high availability of e-commerce services.
* Enhanced customer data security by adhering to best practices in application development and data handling.
* Facilitated smooth and efficient online shopping experiences by leveraging Angular 7 for front-end development.
* Optimized application performance and scalability using Apache Tomcat 9, accommodating growing customer traffic and data volumes.
* Fostered a culture of continuous learning and improvement, integrating the latest technologies and practices into the e-commerce development process.

**Environment:** Java, Spring Framework 5.x, Angular 7, Hibernate 5.x, RESTful Services, Apache Tomcat 9, Maven 3.x, JUnit 5, Oracle 12c, IntelliJ IDEA 2019, Git, Docker, AWS, Linux (Ubuntu), and Agile methodologies.

**Client: Fingent Global Solutions Pvt. Ltd., Kochi, India Jan 2016 to Jun 2017**

**Role: Software Developer**

**Roles& Responsibilities:**

* Contributed to financial software projects, utilizing Java for building robust and scalable backend services.
* Leveraged Spring 4.x for application context and dependency injection, enhancing application modularity and maintainability.
* Integrated Hibernate 4.x for efficient data access and manipulation, streamlining persistence layer operations.
* Designed and implemented RESTful Services to facilitate seamless data exchange and integration with external services.
* Utilized JAX-WS for creating secure and reliable web services, supporting SOAP-based communication.
* Managed application deployment on JBoss 7.x, ensuring optimized server performance for financial applications.
* Automated continuous integration and deployment processes using Jenkins, improving project delivery times and quality.
* Employed TestNG for comprehensive testing, ensuring the reliability of financial software solutions before release.
* Optimized database interactions and performance with SQL Server 2014, enhancing data storage and retrieval processes.
* Developed software in a Linux environment, ensuring compatibility and performance across diverse operational systems.
* Adopted IntelliJ for development, leveraging its powerful features for efficient coding and debugging.
* Facilitated message-driven communication and service integration using RabbitMQ, enhancing system scalability and flexibility.
* Implemented Agile methodologies for project management, fostering a collaborative and iterative development environment.
* Ensured application security and data protection by adhering to industry-standard security practices.
* Optimized application performance and user experience through continuous evaluation and refinement of software architectures.
* Engaged in collaborative coding and code reviews, enhancing code quality and team knowledge sharing.
* Prioritized user-centric design and development, ensuring financial software solutions met client and user needs effectively.
* Demonstrated a commitment to professional growth and technological excellence, staying abreast of emerging trends and practices.

**Environment:** Java, Spring 4.x, Hibernate 4.x, RESTful Services, JAX-WS, JBoss 7.x, Jenkins, TestNG, SQL Server 2014, Linux, IntelliJ, RabbitMQ, Agile methodologies.

**Client: Lorventech Solutions India Pvt Ltd, Chennai, India Jun 2014 to Dec 2015**

**Role: Java/J2EE Developer**

**Roles & Responsibilities:**

* Initiated career in software development by creating manufacturing and logistics software solutions using Java/J2EE.
* Employed EJB for building robust enterprise-level backend applications, enhancing business process management.
* Utilized JSF for developing interactive and user-friendly web interfaces, improving user engagement and productivity.
* Integrated Spring for comprehensive dependency injection and application context management, facilitating better application architecture.
* Leveraged Hibernate for object-relational mapping, simplifying database transactions and data management processes.
* Designed dynamic web pages using XHTML and CSS, enhancing the visual appeal and usability of applications.
* Implemented AJAX and jQuery for asynchronous web part updates, improving page responsiveness and user experience.
* Adopted Angular 2 for developing single-page applications, streamlining frontend development and interaction.
* Managed application deployment and runtime on JBoss 7.x, ensuring high availability and performance.
* Utilized Maven for dependency management and build automation, streamlining the development lifecycle.
* Conducted rigorous testing with TestNG, ensuring the reliability and quality of developed applications.
* Optimized data storage and management using early versions of Cassandra, exploring NoSQL database benefits.
* Developed applications in a Linux environment, ensuring system compatibility and performance efficiency.
* Engaged in continuous learning and skill enhancement, adopting new technologies and methodologies for software development.
* Fostered a culture of innovation and continuous improvement, contributing to the development of efficient and effective software solutions.

**Environment:** Java/J2EE, EJB, JSF, Spring, Hibernate, XHTML/CSS, AJAX, jQuery, Angular 2, Boss 7.x, Maven, TestNG,

**Education:**

* Bachelor of Technology (B.Tech) in Information Technology from JNTUH University, Hyderabad, Telangana, India. - 2014