# **A blue and white logo AI-generated content may be incorrect.A round silver object with a white circle with black text AI-generated content may be incorrect.A close-up of a sign Description automatically generatedC:\Users\ADMIN\Downloads\images_1-removebg-preview.pngYALAMANCHILI THARUN**

## **FULL-STACK DEVELOPER**

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## **Professional Summary:**

Dynamic and results-driven Full Stack Developer with 8+ years of experience in building, optimizing, and deploying scalable applications. Adept in Java, Python, and .NET technologies, with hands-on experience in cloud-native and data-driven systems. Skilled in developing full-stack web solutions using React, Angular, Drupal, and REST/GraphQL APIs. Passionate about leveraging machine learning for intelligent software, maintaining code quality through CI/CD, and collaborating across Agile teams.

* Proficient in developing multi-tier web applications using Java 8–17, Spring Boot (REST APIs, Security, Cloud, Batch), Microservices, Hibernate, JPA, JDBC, Scala, JMS, and Java Multithreading.
* Adept at creating scalable RESTful APIs and GraphQL using Spring Boot and JAX-RS, incorporating robust input validation, exception handling, caching, and Swagger documentation.
* Skilled in frontend development with Angular 12–17, React 18, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, and RxJS for building responsive, dynamic user interfaces.
* Experienced with Apache Tomcat, JBoss, and Nginx for application and web server management.
* Implemented real-time, event-driven systems with Apache Kafka and ActiveMQ, enabling asynchronous service communication.
* Extensive experience with cloud platforms like Azure (AKS, Azure Functions, App Services, Azure SQL, Blob Storage, Key Vault, Monitor) and AWS (Lambda, S3, EC2, CloudWatch, IAM) for deploying containerized microservices.
* Built and deployed containerized applications using Docker 24.0 and Kubernetes 1.28, with CI/CD pipelines in Jenkins and GitHub Actions.
* Proficient in RDBMS such as PostgreSQL, MySQL, Oracle, and DB2, with expertise in query optimization, indexing, and stored procedures.
* Knowledgeable in NoSQL databases like MongoDB and DynamoDB for handling semi-structured and distributed data.
* Experienced in designing caching solutions using Redis.
* Skilled in Agile/Scrum methodologies and TDD/BDD practices, utilizing JUnit, Mockito, Jest, and tools like Git, Bitbucket, Jira, Confluence, and Maven.
* Proficient in monitoring and observability with Prometheus, Grafana, ELK Stack, and Splunk to ensure application performance and health.
* Strong expertise in Data Structures, Algorithms, debugging, and performance optimization in distributed systems.

## **Certifications:**

* Oracle Java SE 11 developer.
* Oracle Java SE 8 Programmer.
* AWS certified Developer.
* Microsoft certified Azure Fundamentals.
* Software Engineering Job Simulation by JP MORGAN Chase & Co
* Machine learning -under Data-Driven Science.
* Mobile and Desktop Development and Network Fundamentals- Under Microsoft Virtual Academy.
* Attended workshop conducted by the SALESFORCE company on the SALESFORCE PLATFORM.

| **Technical Skills:** |  |
| --- | --- |
| **Front-End Development** | React.js, Angular, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, AJAX |
| **Back-End Development** | Java, Spring Boot, Spring MVC, Spring Security, Hibernate, Node.js, Express.js |
| **APIs & Security** | RESTful APIs, GraphQL, OAuth 2.0, JWT, API Gateway, Multi-Factor Authentication, JSON, SOAP |
| **Microservices & Messaging** | Spring Boot, Microservices Architecture, Kafka, RabbitMQ |
| **Databases** | MySQL, MongoDB, Oracle, Cassandra, SQL, PL/SQL |
| **CI/CD & Version Control** | Jenkins, GitHub Actions, Git, GitLab, Bitbucket, CI/CD Pipelines |
| **Testing & Monitoring** | JUnit, Mockito, Cypress, Postman, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Splunk,Cucumber |
| **Cloud & DevOps** | AWS (EC2, S3, Lambda, RDS, DynamoDB, IAM), Azure, Kubernetes, Docker, Terraform, CloudFormation, AWS CLI |
| **Agile & Project Management** | JIRA, Scrum, Kanban, Sprint Planning, Documentation |
| **Soft Skills** | Problem-solving, Time Management, Leadership, Communication, Decision-making, Documentation, Presentation |

## **Professional Experience:**

### **Client: PNC Bank, TX, USA (July 2024 – Present)**

### **Role: Sr Software Engineer**

**Description:** PNC is a leading banking and global financial services organization that offers a wide range of products, insights, and experiences to enrich customers’ lives and drive business growth. The project involved developing user interface (UI) screens for various PNC products and services, as well as implementing backend Java components. This included retrieving data from the client side, processing it on the server, and persisting it to the database. Additionally, the project focused on fetching stored data and rendering it on the UI for user interaction.

**Responsibilities**:

* Participated in all phases of the SDLC, including requirement analysis, design, development, system testing, and UAT in an Agile Scrum environment.
* Developed responsive, modular UI components using ReactJS, JavaScript, Bootstrap, and Node.js, enabling real-time user interactions for core banking services.
* Built reusable React component libraries (e.g., dynamic tables, autocomplete) with efficient state handling and lifecycle management.
* Implemented stateless authentication using JWT, enabling scalable and secure session handling in distributed systems.
* Implemented secure and scalable backend microservices using Java 8, Spring Boot, Spring MVC, and Spring Security, supporting core banking workflows.
* Utilized Java 8 features such as lambda expressions, streams, and functional interfaces to enhance code readability and performance.
* Developed and consumed RESTful APIs for transaction processing and integrated third-party financial services using JAX-RS.
* Managed data persistence using Hibernate ORM with Oracle, performing complex CRUD operations with high reliability.
* Collaborated with developers and product owners to define acceptance criteria and test coverage using Cucumber for Agile user stories in Scrum teams.
* Applied Spring Security for implementing authentication, authorization, and protection against common web vulnerabilities (CSRF, clickjacking).
* Adopted TDD in microservices development, writing unit tests before implementation to validate design and business logic upfront.
* Designed test-first logic following TDD principles, enabling early fault detection and increasing code reliability in CI/CD pipelines.
* Containerized microservices using Docker, authored Dockerfiles, and orchestrated deployments using Kubernetes across DEV, UAT, and PROD.
* Created and maintained Kubernetes clusters, managing deployments, services, config maps, and namespaces for secure and isolated banking microservices.
* Migrated legacy applications to AWS, leveraging EC2, S3, and SNS for compute, storage, and messaging across environments.
* Managed user access and roles via AWS IAM, defining secure custom policies to enforce access control across cloud services.
* Designed and maintained CI/CD pipelines using Jenkins, automating build, test, Docker image creation, and Kubernetes deployment workflows.
* Resolved complex merge conflicts and implemented Git hooks to enforce commit standards and pre-commit checks.
* Used AWS SNS/SQS for fan-out message delivery and durable queue-based workflows in cloud-native applications.
* Utilized Spring Tool Suite (STS) and Eclipse IDE for Java-based development, debugging, and performance optimization.

**Environment:** Agile Scrum Methodology, Java 8, Spring Boot, Spring MVC, Spring Security, JAX-RS, Hibernate, RESTful APIs, JWT, ReactJS, JavaScript (ES6+), Bootstrap, Node.js, Oracle, PL/SQL, JUnit, TDD, Docker, Kubernetes, AWS (EC2, S3, SNS, SQS, IAM), Jenkins, Git, GitHub, STS, Eclipse, Maven, Log4j

### **Client: PepsiCo, TX, USA (April 2023 - June 2024)**

### **Role: Sr. Software Developer**

**Description**: PepsiCo is a global leader in food and beverage innovation. I have designed and implemented scalable microservices and responsive UI components for the Enterprise Microservices Integration Platform using Java, Spring Boot, AngularJS, and RESTful APIs. The solution enabled seamless integration of financial and operational data, deployed on AWS ECS/EKS with Docker and Kafka for real-time processing, and enhanced system reliability through CI/CD automation and observability tools like AppDynamics and Grafana.

**Responsibilities:**

* Participated in all phases of the **Software Development Life Cycle (SDLC)** using **Agile methodology**, including sprint planning, development, testing, and production support.
* Developed UI components using **AngularJS**, **HTML5, CSS3, JavaScript, Bootstrap, jQuery, TypeScript**, and **JSP**, improving user experience and application responsiveness.
* Built backend business logic and REST APIs using **Java 6/8**, **Spring MVC**, **Spring Boot**, and **Hibernate**, supporting modular microservices architecture.
* Performed **server-side validation** with Spring Validation Framework and implemented data persistence logic with Hibernate and JPA.
* Wrote complex **SQL queries** and managed relational databases (**Oracle, MS SQL Server**) using **TOAD for Oracle** for efficient data operations.
* Automated builds with **Gradle**, managed repositories in **GitLab**, and used **STS/Eclipse** for Java development and debugging.
* Conducted **unit testing** with **JUnit**, implemented logging using **SLF4J**, and ensured code quality through proper validation and exception handling.
* Monitored server health and application performance using **AppDynamics** and **Grafana**, contributing to system stability and observability.
* Collaborated with cross-functional teams to resolve system integration issues and ensured the smooth deployment of enterprise web modules.
* Engineered Kafka-based pipelines for processing high-throughput financial transactions with custom partitioning and offset handling.
* Managed deployment and lifecycle operations on **WebSphere Application Server**; automated maintenance tasks using **Shell scripts** in **Linux** with **PuTTY**.
* Handled **CI/CD pipelines**, supporting continuous integration and streamlined deployments in collaboration with DevOps.
* Deployed microservices on **AWS ECS/EKS** with Auto Scaling, integrated with **S3** for document storage and RDS for persistence.
* Set up GitHub Actions for automated testing and deployment pipelines triggered by pull requests and version tags.
* Worked on **ServiceNow** tickets for production issue resolution, performing root cause analysis and delivering timely bug fixes in a high-availability environment.
* Played a key role in **performance tuning** of backend modules and database queries, enhancing application efficiency under load.

**Environment:** Java 6/8, Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, RESTful APIs, AngularJS, Angular 7/8, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, jQuery, JSP, Node.js, Oracle 11g/12c, MS SQL Server, PostgreSQL, MongoDB, PL/SQL, Kafka, AWS (ECS, EKS, S3, RDS), Docker, Kubernetes, WebSphere Application Server, Tomcat, STS, Eclipse, Gradle, GitLab, GitHub Actions, JUnit, SLF4J, AppDynamics, Grafana, ServiceNow, Shell Scripting, Linux (PuTTY), CI/CD, JIRA.

### **Client: Cybersoft Technologies, TX, USA (September 2022 - April 2023)**

### **Role: Software Developer**

**Description:** Developed a cloud-based SaaS platform to streamline K-12 school nutrition programs, integrating menu planning, inventory management, POS, and family payment portals using Java, Spring Boot, Angular, and AWS.

**Responsibilities:**

* Built scalable REST and GraphQL APIs using **Java 17** and **Spring Boot 3.2**, implementing modular onboarding features and ensuring adherence to SOLID design principles.
* Integrated **Apache Kafka** for real-time processing of financial transactions and system notifications, handling millions of low-latency events per day.
* Designed and tuned **PostgreSQL** queries; implemented schema versioning using **Flyway**, enabling zero-downtime database migrations and improved query performance.
* Achieved 90% code coverage via JUnit 5 and Mockito-based unit/integration testing, leading to a 70% reduction in production defects.
* Automated **CI/CD pipelines using Jenkins**, streamlining build, test, and deploy workflows and reducing release cycle time by 60%.
* Implemented blue-green deployments using OpenShift and Kubernetes, enabling zero-downtime production releases across 6+ major deployments.
* Deployed microservices on **Azure Virtual Machines (VMs)** and **Azure Functions**; integrated **Azure Blob Storage** for document management and configured **Azure Monitor** and **Log Analytics** for log aggregation and automated alerting.
* Provisioned and managed infrastructure using Terraform, enabling consistent and repeatable environment creation across Dev, QA, and Prod in Azure.
* Integrated **Splunk**, **Prometheus**, and **Grafana** for centralized logging and observability, and built dashboards to monitor system performance and API health.
* Documented APIs using **Swagger/OpenAPI**, collaborated in **Confluence** for architectural diagrams, and participated in cross-team design discussions.
* Performed **Root Cause Analysis (RCA)** for post-production issues and led performance debugging efforts, reducing Mean Time to Resolution (MTTR) by 50%.
* Conducted peer code reviews, enforced clean code principles, and mentored junior developers on full-stack development and DevOps workflows.
* Collaborated with **product managers** and **QA teams** to gather requirements, refine backlog items, and ensure robust technical solutions aligned with business goals.

**Environment:** Java 17, Spring Boot 3.2, RESTful APIs, GraphQL, Apache Kafka 3.5, PostgreSQL 15, Flyway, JUnit 5.9, Mockito 4.11, React.js 18.2, Node.js 18.17, Swagger/OpenAPI, Docker, Kubernetes, OpenShift, Jenkins, GitHub Actions, Azure (VMs, Azure Functions, Blob Storage, Monitor, Log Analytics), Terraform, Splunk, Prometheus, Grafana, IntelliJ IDEA 2023.1, Visual Studio Code 1.81, JSON, Postman 10, SOAP UI 5.7, Jira, Confluence.

### **Client: Carelon Global Solutions, Hyderabad - India (October 2020 - August 2022)**

### **Role: Software Engineer**

**Description**: Carelon is a subsidiary of Elevance Health, an American health insurance provider. I have designed and implemented robust, scalable, and secure server-side components for the Strategic Provider System using Java, Spring Boot, Hibernate, and RESTful APIs. Delivered complex business logic and seamless integration with backend systems to enhance provider data management and operational efficiency.

**Responsibilities:**

* Designed and developed secure, RESTful microservices using **Java 11**, **Spring Boot**, and **Hibernate**, to support core provider workflows including registration, credentialing, updates, and deactivation.
* Reduced API response time from **2 seconds to 200 ms** by implementing **Redis caching**, optimizing SQL/HQL queries, and transitioning key APIs to **Spring Web Flux** for reactive performance.
* Engineered **scalable and resilient microservices** using Spring Cloud components (Eureka, Gateway, Config Server) to handle provider master data integration across distributed systems.
* Led the integration of **Kafka** for managing high-throughput, asynchronous event streams (>50,000 messages/sec) to power real-time provider updates across eligibility, claims, and referrals.
* Delivered HIPAA-compliant solutions by implementing **JWT-based authentication**, **OAuth 2.0**, and **Spring Security**, ensuring secure access control to sensitive healthcare data.
* Revamped provider portal UI with **ReactJS and Angular**, achieving a **35% boost in user engagement** and improving accessibility for care coordinators and administrators.
* Developed complex business rules and workflows in the **provider credentialing module**, including license validation, background checks, and sanctions monitoring.
* Created dynamic search and filtering features for provider lookup using **Elasticsearch** for fast retrieval across millions of records.
* Utilized **Terraform and AWS CloudFormation** for Infrastructure as Code (IaC), enabling consistent environment provisioning across DEV, QA, and PROD.
* Automated CI/CD pipelines using **Jenkins**, integrating with **Docker** and **Nexus** for artifact versioning and deployment, reducing manual deployment errors by 90%.
* Monitored system performance and error trends using **ELK Stack (Elasticsearch, Logstash, Kibana)** and **Prometheus + Grafana**, enabling real-time incident response and proactive alerting.
* Integrated with **3rd-party provider registries (e.g., CAQH, NPPES, PECOS)** to synchronize credential data through secure APIs.
* Implemented **role-based access control (RBAC)** for multiple user personas: internal staff, providers, compliance officers, and auditors.
* Developed comprehensive **unit, integration, and contract tests** using **JUnit 5, and Mockito**, achieving 85%+ code coverage across modules.
* Participated in Agile Scrum ceremonies, including sprint planning, retrospectives, and daily stand-ups; contributed to story estimation and velocity tracking via **JIRA**.

**Environment:** Java 11, Spring Boot, Spring WebFlux, Spring Security, Spring Cloud (Eureka, Gateway, Config Server), Hibernate, JPA, RESTful APIs, Kafka, JWT, OAuth 2.0, Redis, Elasticsearch, JUnit 5, Mockito, ReactJS, Angular 11, HTML5, CSS3, Node.js, Docker, Jenkins, Nexus, AWS (EC2, S3, CloudFormation), Terraform, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Oracle 10g, Swagger UI, JIRA, Git, Eclipse, XML, Microservices Architecture.

### **Client: Kinfotech, Bangalore- India (February 2017 – October 2020)**

### **Role: Associate Software Engineer**

**Description:** The BSNL Claims & Billing Automation System was a mission-critical telecom solution developed to streamline and digitize the handling of **customer claims, billing validation, refund processing**, and **service adjustments**. Designed as a **microservices-based architecture** using **Java Spring Boot**, the system integrated with telecom charging engines, third-party payment gateways, internal CRMs, and customer-facing web portals.

**Responsibilities:**

* Developed and maintained scalable **Java-based microservices** using **Spring Boot** to handle telecom claims processing, billing generation, adjustment workflows, and refund tracking.
* Implemented RESTful APIs for **claim submission**, **bill validation**, and **transaction history retrieval**, integrated with BSNL’s frontend portals used by customer care agents and zonal offices.
* Integrated backend services with **telecom charging engines, payment gateways,** and internal CRM systems to reconcile call/data usage with monthly billing and refunds.
* Built asynchronous processing pipelines using **Kafka** and **RabbitMQ** to queue and process high volumes of billing events and claim requests, ensuring real-time status updates and retries.
* Created **MySQL schemas** to model billing records, claim metadata, audit logs, and resolution states, optimizing performance through indexing and query tuning.
* Implemented **Spring Security** and JWT-based authentication to secure APIs and protect customer financial data in line with government compliance requirements.
* Added support for **bulk claim uploads** via Excel/CSV, with server-side validation and automatic assignment to workflow queues for approval and resolution.
* Automated deployment workflows using **Jenkins**, **Docker**, and Git-based version control, ensuring safe, versioned rollouts to UAT and production environments.
* Integrated with external **email/SMS APIs** to notify customers and agents of billing disputes, claim status changes, and resolution deadlines.
* Built log monitoring and alert dashboards using **Logstash, Elasticsearch, and Kibana (ELK)** to track failed transactions, abnormal charges, and SLA violations.
* Participated in **daily stand-ups, sprint planning, and reviews** using Agile Scrum; worked closely with BSNL product owners and QA teams for UAT validations.
* Documented key services like ClaimProcessorService, BillVerificationEngine, and ReimbursementScheduler, and contributed to onboarding materials.
* Collaborated with cross-functional teams to implement **dispute resolution SLAs**, ensuring that all customer claims were automatically escalated or resolved within predefined regulatory timelines.
* Developed scheduled batch jobs using **Spring Scheduler** to automate **monthly billing cycles**, **penalty charge calculations**, and **claim settlement payouts**, reducing manual intervention by 90%.
* Contributed to performance tuning by profiling high traffic claim endpoints using **Spring Actuator** and **JProfiler**, resulting in a **40% reduction in latency** during peak traffic hours.

**Environment:** Java 11+, Spring Boot, Spring Security, Spring Scheduler, RESTful APIs, Kafka, RabbitMQ, JWT, React.js, MySQL, MongoDB, Redis, Docker, Kubernetes, Jenkins, GitHub Actions, AWS (EKS, S3, Lambda, RDS), Postman, Swagger/OpenAPI, Logstash, Elasticsearch, Kibana (ELK Stack), Prometheus, Grafana, Git.