Praneeth Reddy Nagilla

Full Stack Developer

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Praneeth Nagilla | LinkedIn

PROFESSIONAL SUMMARY:

- Full Stack Developer with expertise in designing scalable enterprise applications using Java, Spring Boot, React, and microservices on cloud platforms like AWS and Azure
- Hands-on experience in containerization and orchestration technologies including Docker and Kubernetes to streamline deployments and scale distributed systems efficiently
- Designed and deployed CI/CD pipelines using Jenkins, GitHub Actions, and Helm for automated testing, secure builds, and faster delivery cycles
- Worked with real-time messaging and streaming systems such as Kafka for event-driven microservices architectures and asynchronous communication
- Implemented secure authentication and authorization mechanisms using OAuth2, JWT, and RBAC across RESTful APIs and frontend apps
- Proficient in writing clean, modular backend services and integrating with frontend components using React, Angular, and HTML/CSS
- Utilized Prometheus and Grafana to set up observability pipelines with dashboards and alerting for monitoring performance bottlenecks
- Incorporated ELK stack and Dynatrace for end-to-end log analysis and real-time issue resolution in production environments
- Built highly available distributed systems with fault-tolerant configurations and efficient load balancing using AWS Application Load Balancers
- Experience with SQL and NoSQL databases like PostgreSQL and MongoDB including indexing, query optimization, and schema refactoring
- Wrote shell scripts to automate system tasks, cleanup jobs, and log aggregations in cloud and on-premise Linux environments
- Contributed to scalable software design by documenting class diagrams, UML, and architecture blueprints for cross-team understanding
- Led development and release cycles using Agile methodologies, sprint grooming, daily stand-ups, and collaborative Git-based workflows
- Integrated NLP and LLM capabilities into search features using Python and MATLAB for intelligent search functionalities and user suggestions
- Applied data structures and algorithms to solve routing, scheduling, and large-scale querying problems within logistics and financial domains
- Experienced in cross-functional collaboration with product managers, UX teams, and QA leads to deliver user-centric features

TECHNICAL SKILLS:

Languages:	Java 17, JavaScript (ES6+), TypeScript, Python, SQL, PL/SQL, Shell Script
Databases	PostgreSQL, Aurora PostgreSQL, MySQL, MongoDB, Redshift, DynamoDB
J2EE Technologies :	RESTful Web Services, JPA, Microservices, Kafka, Spring Data JPA
UI Technologies :	HTML5, CSS3, JavaScript, TypeScript, Angular, React.js, Bootstrap, Redux, JSON, AJAX
Frameworks:	Spring Boot, Spring MVC, Spring Cloud, Spring Security, Hibernate, Spring ORM

Cloud Technologies:	AWS (EC2, S3, RDS, Lambda, Redshift, Route53, CloudWatch, SageMaker, Kinesis, CloudTrail, Data Pipeline)
Messaging Services:	Kafka, RabbitMQ, AWS SQS, AWS SNS
DevOps & CI/CD	Jenkins, GitHub Actions, Docker, Helm, Kubernetes, OpenShift
Monitoring & Logging	Dynatrace, Grafana, Prometheus, ELK Stack, AWS CloudTrail, Splunk
Web Services	REST, GraphQL, SOAP
Reporting & Visualization Tools	Power BI, Tableau, Splunk, ELK Stack
Testing Tools	JUnit, TestNG, Postman, Cypress, Mockito, Selenium, REST Assured
Version Control & Tools	Git, GitHub, GitLab, Bitbucket, JIRA, Confluence
Security & Access	OAuth2.0, JWT, IAM Roles & Policies, AWS KMS, RBAC, TLS, Encryption Techniques
Web/Application Servers	Tomcat, Nginx

EDUCATION:

- Master's in computer science from University of Central Missouri

PROFESSIONAL EXPERIENCE:

Centene Corporation, Saint Louis, United States **Jan 2024 – Till Date**
Role: Java full stack Developer

Project Overview: Played a key development role in building and scaling the Centene Health Management Platform, a core system supporting member enrollment, eligibility checks, claims adjudication, and care coordination across state Medicaid and Medicare programs. The platform adhered to HIPAA, HL7, and FHIR standards and was integrated with internal EHR systems, provider networks, and external clearinghouses. Key focus areas included data security, service resilience, and regulatory compliance across distributed healthcare workflows.

Functional Role Details:

- Designed and deployed microservices using Java 11 and Spring Boot within AWS infrastructure to streamline claims processing and eligibility validations
- Architected and implemented RBAC-based secure REST APIs with JWT authentication integrated with OAuth2 providers and SSO login for internal services
- Containerized all backend services using Docker and Helm charts and deployed to Kubernetes clusters across staging and production environments
- Implemented and monitored CI/CD pipelines with Jenkins and GitHub Actions ensuring automated code validation, testing, and canary deployments
- Integrated Dynatrace and Grafana dashboards to track API performance, JVM metrics, and end-to-end latency of member services in real time
- Refactored legacy SOAP-based modules into modular RESTful endpoints, reducing technical debt and improving code maintainability
- Used Apache Kafka for asynchronous communication between benefits processing, enrollment workflows, and external partner systems
- Developed React-based internal dashboards for claims operations and integrated dynamic forms to fetch and post real-time member data

- Maintained strong backend observability using Prometheus metrics and Elasticsearch logs piped into Kibana dashboards for RCA and trend analysis
- Wrote and optimized complex SQL queries and procedures on PostgreSQL for batch jobs and provider onboarding services
- Created documentation with UML diagrams, class interactions, and sequence flows to align engineering deliverables with business goals
- Contributed to infrastructure automation using Terraform and Ansible for provisioning AWS resources and Kubernetes configuration management
- Developed cron-based job schedulers and file watchers for real-time data ingestion and eligibility feed validation from external payors
- Collaborated closely with business analysts and HIPAA compliance teams to ensure architecture and data models adhered to security standards
- Mentored junior developers on code quality, branching strategies, logging, and test-driven development for microservice pipelines
- Led daily Agile ceremonies and participated in cross-team architecture reviews to align efforts across multi-region delivery teams

Wells Fargo, Pune, India **Aug 2021 – Feb 2023**

Role: Java Developer

Project Overview: Supported the design and modernization of Wells Fargo's internal banking platforms used for payroll processing, ledger reconciliation, billing workflows, and regulatory financial reporting. The project emphasized accuracy in ledger entries, compliance with SOX, and seamless integration between core accounting systems, payment gateways, and audit controls within the bank's enterprise infrastructure.

Functional Role Details:

- Engineered backend microservices in Java and Spring Boot to automate journal entry creation, invoice lifecycle management, and financial statement generation across internal General Ledger (GL) systems.
- Integrated REST and GraphQL APIs with upstream banking platforms to expose key financial data sets including account balances, batch payment statuses, ACH settlement records, and reconciliation summaries.
- Automated reconciliation of internal ledgers and sub-ledgers, ensuring consistency across clearing accounts, suspense accounts, and posted transactions using logic rooted in accrual and cash-basis accounting rules.
- Partnered with risk and controls teams to embed SOX-compliant audit checkpoints into payment approval workflows, with full traceability of transaction authorization chains and exception logs.
- Built Kafka-based streaming pipelines to ingest real-time transaction logs and banking events (ACH acknowledgments, chargebacks, funding confirmations), enabling real-time financial monitoring and exception handling.
- Designed automated batch processing for payroll disbursements, direct deposits, and account settlements using optimized algorithmic workflows and pre/post-validation logic for journal integrity.
- Managed secure ETL pipelines for transmitting remittance details, tax codes, and expense classifications to centralized finance systems via AWS Glue and Lambda, supporting monthly close and audit reporting cycles.
- Developed dashboards for internal controllers and financial operations teams using Angular, enabling real-time oversight of invoice aging, GL balances, and unreconciled transaction volumes.
- Implemented token-based access controls and role-scoped authentication (OAuth2, JWT) across microservices handling PII, payroll, and fund movement records, aligned with PCI-DSS and SOX controls.
- Coordinated integration testing with payment clearing systems (ACH, Fedwire) and third-party payroll processors to validate cross-platform financial data consistency.
- Optimized backend ledger queries for finance modules using query planning, index restructuring, and write-optimized data models to support high-frequency accounting operations.
- Created Grafana dashboards and ELK-based logs to monitor end-of-day settlement jobs, flag reconciliation discrepancies, and alert finance teams of unmatched ledger entries.
- Assisted in producing audit-ready reporting packages using Athena and S3 to export filtered ledger views, tax journals, and payroll exception reports for internal auditors and regulators.
- Participated in design sessions with finance SMEs to translate accounting requirements into software workflows, particularly around GL adjustments, cost center allocations, and fixed asset ledgers.
- Conducted root cause analysis for failed fund transfers, delayed settlements, and reconciliation mismatches, coordinating with treasury and enterprise payment teams to implement corrective actions.
- Documented technical SOPs, payment processing standards, and reconciliation playbooks to support internal audit teams, streamline onboarding, and prepare for quarterly audit walkthroughs.

T-Mobile, Hyderabad, India **Aug 2019 – July 2021**
Role: Java Developer

Project Overview: Contributed to the backend development of T-Mobile's Corporate Internet Banking (CIB) platform, which served enterprise clients such as corporations, trusts, and partnerships requiring secure, real-time, and bulk transactional capabilities. The platform integrated with internal BSS (Business Support Systems), telecom-grade audit pipelines, and national payment networks (NEFT/RTGS/IMPS), delivering banking capabilities over telecom infrastructure while enforcing SLA guarantees, audit compliance, and transactional transparency across distributed networks.

Functional Role Details:

- Engineered transactional microservices using Java 11 and Spring Boot to support fund initiation, authorization, and post-processing flows for high-value enterprise payments across multiple banking corridors.
- Built RESTful APIs for transaction initiation and bulk payment scheduling, interfacing directly with internal payment orchestration layers and telecom mediation systems for event auditing and ledger updates.
- Integrated with external banking APIs (NEFT, RTGS, IMPS) via secure VPN tunnels, managing API handshake sessions, timeouts, and backoff strategies using custom retry frameworks and failover queues.
- Implemented a transaction pre-validation engine that checked available balances, payment limits, beneficiary status, and regulatory compliance rules before forwarding to downstream payment processors.
- Designed a middleware communication hub using Kafka, where each transaction emitted structured event logs (JSON schema) consumed by downstream CDR (Call Detail Record) generators, used for telecom audit tracing.
- Implemented dual ledger bookkeeping (initiated vs. posted state) with reconciliation logic triggered after callback confirmation from external clearinghouses, ensuring balance integrity across all posted transactions.
- Configured and enforced PCI-DSS compliance in sensitive modules through AES-256 field-level encryption, token masking of PAN/account numbers, and TLS-encrypted service communication across network zones.
- Worked alongside telecom infrastructure teams to deploy backend services across DMZ-layered Kubernetes clusters with multi-zone failover, health checks, and pod disruption budgets configured for high-availability banking endpoints.
- Developed callback routers to process asynchronous status notifications from clearing systems, updating transaction statuses with journal entries and accounting adjustments in the internal BSS layer.
- Built real-time reconciliation workflows that consumed transaction events, ledger entries, and payment status updates to detect mismatches, trigger ledger locking, and emit operator alerts.
- Enhanced the CIB dashboard interface used by operations teams with Angular components that surfaced real-time transaction trails, pending settlements, and SLA violation alerts.
- Configured service-level Prometheus metrics for transaction durations, failure counts, retry queue lengths, and clearing latency, exposed through Grafana dashboards and integrated with alert escalation workflows.
- Designed fail-safe patterns like idempotency tokens, correlation IDs, and conditional commits to protect transaction integrity during retries, restarts, and service interruptions.
- Created integration test harnesses using JUnit, TestNG, and Postman for validation of end-to-end transaction scenarios including scheduled bulk transfers, invalid beneficiary rejections, and chargeback handling.
- Collaborated closely with fraud detection and compliance units to implement flagging of suspicious transaction patterns, integrate watchlist checks, and emit real-time alerts based on behavioral thresholds.
- Authored end-to-end flow documentation, audit logs schema definitions, and operational SOPs for use by L2/L3 support teams, system auditors, and DevSecOps compliance reviewers.

INTERNSHIPS:

BHEL, Hyderabad, Telangana, India **May 2019 – June 2019**
Role: Intern (Study of PLC in CNC Machines)

- Conducted a study on integrating PLCs in CNC machines, focusing on automation and operational efficiency.
- Developed a prototype dashboard using Java and Spring Boot to visualize machine performance metrics.
- Applied problem-solving techniques and optimized data structures to store real-time machine outputs.
- Prepared technical documentation and presented findings to senior engineers, enhancing reporting skills.

ECIL, Hyderabad, Telangana, India **May 2017 – Nov 2017**
Role: Intern (Junior Software Engineer)

- Throughout a six-month internship. I worked as a software engineer, gaining invaluable real-world exposure to operating in large team setting.

- Involved in the Hospital Management System project team, HTML was used to design web pages, Java for seamless frontend-backend communication, and SQL for efficient data storage and retrieval. Played a crucial role in optimizing hospital operations through streamlined patient record management and appointment scheduling.

CERTIFICATIONS:

- AWS Certified Developer – Associate
- Microsoft Certified: Azure Developer Associate
- Microsoft technology Associate (MTA): Python

PUBLICATIONS:

Title: Development and Performance Evaluation of NavIC-Based Reefer Monitoring System
Authors: N. Praneeth Reddy, B. Sumanth Reddy, A. Supraja Reddy, K. Satyanarayana, V. Dileep Reddy
Published In: Advances in Signal Processing and Communication Engineering, Springer, July 2024
Abstract: Proposed a NavIC-based monitoring system to ensure real-time tracking of environmental conditions in refrigerated containers (reefers) for transporting temperature-sensitive goods. The system leverages NavIC for precise geolocation, enhancing logistics efficiency and reducing spoilage losses.
Link: https://link.springer.com/chapter/10.1007/978-981-97-0562-7_15