Anudeep Allamsetty

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PROFESSIONAL SUMMARY

- **Full Stack Java Developer** with **5+ years** of experience delivering scalable enterprise applications across insurance, banking, pharma, and manufacturing domains using **Java**, **Spring Boot**, **Angular**, **React**, and cloud-native technologies.
- Migrated legacy claims modules to microservices using **Spring Boot on AWS**, introducing domain-driven design, and improving deployment agility and system scalability by over 60%.
- Designed **RESTful APIs** with **Java 17**, applying layered architecture with **DTOs** and global exception handling; documented with **Swagger** to reduce integration defects by 30%.
- Built **Angular 17** dashboards using **NgRx and AG Grid**, implementing **lazy loading** and server-side pagination to efficiently handle datasets with over 1 million records.
- Developed procurement workflows using **React.js, Redux Toolkit, and React Hook Form**, enabling dynamic form validation and reducing frontend bugs by 25%.
- Integrated **Kafka Streams and RabbitMQ** to enable asynchronous processing of high-volume messages, achieving sub-second latency and fault tolerance in insurance and inventory modules.
- Secured APIs and UI layers using **Spring Security with JWT and OAuth2**, integrating Okta for SSO and enforcing granular RBAC across distributed microservices.
- Experienced in designing multi-threaded and concurrent backend systems using **Java**, **JMS**, and **Spring Batch**, with hands-on execution across the full **software development lifecycle** (**SDLC**) including design, development, testing, deployment, and post-release support.
- Automated infrastructure provisioning with **Terraform and Helm**, deployed containerized services to **Kubernetes** with blue-green rollouts and auto-scaling to enhance release safety.
- Reduced report generation and **API** response time by 60% by optimizing **PL/SQL procedures**, SQL joins, and integrating **Redis caching** for frequently accessed metadata.
- Created CI/CD pipelines with **Jenkins, Azure DevOps**, and enforced quality gates with JUnit 5, Mockito, Cypress, and SonarQube to maintain test coverage above 90%.
- Strong communication, problem-solving, and collaboration skills with hands-on **Agile experience** across the **SDLC**.
- Demonstrated academic and practical exposure to **GenAI tools** including **OpenAI APIs**, **LangChain**, **RAG pipelines**, and **AutoGen** to prototype **LLM**-based search and assistant flows.

TECHNICAL SKILLS

- **Languages:** Java (8–17), TypeScript, JavaScript, SQL, Bash, Python, XML, JSON
- **Frontend Technologies:** Angular (13–17), React.js (Hooks, Redux Toolkit, Context API, React Hook Form), HTML5, CSS3, SCSS, Bootstrap, Tailwind CSS, AG Grid, JSP, Struts
- **Backend & Frameworks:** Spring Boot, Spring MVC, Spring Security (JWT, OAuth2, Okta), Spring Batch, Spring Scheduler, Spring Data JPA, Hibernate, REST APIs, Microservices, Model Mapper, DAO/DTO Patterns
- **Cloud Platforms:** AWS (Lambda, SQS, API Gateway, EC2, S3, IAM, CloudWatch), Azure (Blob Storage, Azure DevOps Pipelines), Kubernetes
- **DevOps & Build Tools:** Docker, Docker Compose, Kubernetes, Helm, Terraform, Jenkins, Azure DevOps, GitHub Actions, Maven, Gradle
- **Databases:** PostgreSQL, MySQL, Oracle (PL/SQL), MongoDB, DynamoDB, Redis
- **Messaging & Streaming:** Apache Kafka (Kafka Streams), RabbitMQ, JMS
- **Testing & QA:** JUnit 5, Mockito, Cypress, Playwright, REST Assured, Postman
- **Monitoring & Logging:** AppDynamics, ELK Stack (Elasticsearch, Logstash, Kibana), AWS CloudWatch, Azure Monitor
- **Documentation & Modeling:** Swagger/OpenAPI, UML (Use Case, Class, Sequence Diagrams)
- **Version Control & CI/CD:** Git, GitHub, GitLab, Bitbucket
- **Processes & Methodologies:** Agile (SCRUM), Sprint Planning, PR Reviews, TDD, BDD, Code Reviews
- **AI & GenAI (Academic and Practical Exposure):** Prompt Engineering, OpenAI API, LangChain, Hugging Face (basic), GPT-4, Retrieval-Augmented Generation (RAG), AutoGen

CERTIFICATIONS & ACHIEVEMENTS

- Oracle Certified Professional: Java SE 11 Developer
- AWS Certified Solutions Architect – Associate
- Microsoft Certified: Azure Administrator Associate

EDUCATION

- **Master's in Computer Science** - University of Central Missouri

PROFESSIONAL EXPERIENCE

Client: **Zurich Insurance Group, Overland Park, Kansas, USA**
Role: **Software Engineer** **Jan 2024 – Present**

- Led the migration of monolithic claims modules into **Spring Boot microservices deployed on AWS (EC2, S3)**, introducing domain-driven boundaries that enabled horizontal scaling and reduced deployment time by over 60%.
- Developed **RESTful APIs** using **Java 17**, applying layered architecture with **DTOs** and global exception handling, and documented endpoints via **Swagger/OpenAPI** to reduce integration time and defects by 30%.
- Built dynamic dashboards with **Angular 17**, leveraging **NgRx store/effects** and lazy-loaded modules to reduce API overfetching and improve UI responsiveness by 40%.
- Integrated **AG Grid** with server-side pagination, virtual scroll, and infinite row models to render over 1 million policyholder records without performance degradation.
- Implemented **Redis caching** to store frequently accessed claim metadata, reducing backend response time from 1.2s to under 500ms under peak load.
- Secured microservices using **Spring Security with JWT and OAuth2**, and enabled SSO integration via **Okta**, enforcing granular role-based access across distributed modules.
- Automated infrastructure setup using **Terraform** for **AWS services (IAM, EC2, VPC)**, ensuring reproducible dev/test environments and minimizing manual config drift.
- Used **Node.js** and **NPM** to manage front-end build pipelines and automate dependency management in **Angular** projects.
- Containerized microservices using **Docker**, deployed via **Kubernetes Helm charts**, and configured rolling deployments with health checks and auto-scaling policies to improve deployment safety and availability.
- Integrated monitoring via **AWS CloudWatch dashboards and AppDynamics**, setting up alerting and memory profiling to reduce incident resolution time by 50%.
- Built event-driven functions using **AWS Lambda** and integrated with **SQS queues** for async order processing and alert handling.
- Integrated **service discovery** and **config centralization** using **Spring Cloud Eureka** and Config Server to decouple deployments and externalize configuration.
- Collaborated in **Agile** teams using **Jira**, led sprint planning and retrospectives, and provided mentorship on SOLID principles, design patterns, and PR reviews to maintain code quality.

Environment: *Java 17, Spring Boot, Angular 17, AWS (Lambda, SQS, API Gateway), Docker, Kubernetes, Redis, Terraform, Okta, Jenkins, GitHub Actions*

Client: **Seaboard Corporation, Merriam, Kansas, USA**
Role: **Java Full Stack Developer** **Sep 2023 – Dec 2023**

- Developed a real-time commodity pricing dashboard using **React.js** with **Redux Toolkit** and **Thunk**, enabling live data updates from **Kafka** and **backend APIs** with consistent state handling.
- Built backend microservices using **Spring Boot and PostgreSQL**, applying Model Mapper for DTO conversion and structured error handling to streamline request processing.
- Integrated **RabbitMQ queues** between the order and inventory modules to decouple processing logic, improving system throughput, and avoiding message loss under load.
- Migrated legacy Angular modules to a **React-based component architecture**, improving frontend maintainability and reducing UI defects by 25% post-release.
- Used **React Hook Form** with custom validators to build dynamic admin forms, enhancing usability and reducing client-side validation errors.
- Wrote optimized **SQL stored procedures** for shipment aggregation, reducing dashboard load time from 7 minutes to under 2 minutes during peak data hours.
- Deployed the frontend on **Azure Blob Storage with CDN integration**, improving global load performance and simplifying release management.
- Configured **Azure DevOps pipelines** with gated approvals and rollback support, ensuring deployment safety during rapid iteration cycles.
- Integrated legacy partner systems using **SOAP-based** services with JAXB binding, maintaining backward compatibility with external vendors.
- Developed **Cypress test suites** for **UI** regression coverage, integrated into **CI workflows** to catch breakage pre-release and reduce manual **QA effort**.

Environment*: Java 17, Spring Boot, React.js, Redux Toolkit, PostgreSQL, Node.js (build), AWS S3, Jenkins*

Client: **Cognizant (Key Bank), Chennai, India**
Role: **Java Full Stack Developer** **Aug 2021 – May 2022**

- Supported migration of legacy Struts modules to **Spring Boot REST APIs**, applying DAO/DTO patterns and layered design to improve maintainability and testability.
- Developed customer onboarding forms using **React.js with Context API**, enabling multi-step input capture and improving validation consistency across tabs.
- Implemented **Spring Security with JWT and CSRF protection**, securing session workflows and preventing unauthorized access in public-facing modules.
- Created **SQL stored procedures** to handle audit logs and customer validation, streamlining backend workflows during form submissions.
- Developed unit and integration tests using **JUnit 5 and Mockito**, mocking service/DB layers to achieve over 90% coverage in targeted modules.
- Deployed microservices to internal **Kubernetes clusters using Helm charts**, contributing to blue/green testing in QA environments.
- Integrated **DynamoDB** with Spring Data for customer metadata storage, utilizing flexible schema modeling to support rapid iteration.
- Participated in daily scrums, reviewed PRs with senior devs, and coordinated bug triage with QA for smooth UAT completion.
- Maintained legacy UI modules built in JSP and jQuery, later migrated to React for improved maintainability.

***Environment**: Java 11, Spring Boot, Angular 13, Azure DevOps, SQL Server, SOAP, JSP, RabbitMQ, CI/CD*

Client: **Solara Active Pharma Sciences Ltd, Chennai, India**
Role: **Java Developer** **Mar 2019 – Jul 2021**

- Designed and developed inventory restocking and compliance tracking pipelines using **Spring Batch with custom schedulers**, reducing manual operations by 70% across QA and production teams.
- Built full-stack clinical trial modules using **Spring Boot and React.js**, incorporating audit trail logging and RBAC to ensure compliance with regulatory standards.
- Integrated **MongoDB with Spring Data** to manage unstructured clinical notes, and implemented TTL indexes for automatic archival of outdated records.
- Refactored legacy approval forms from **JSP and Struts** into REST-driven React interfaces, improving frontend load performance and reducing defect rate post-deployment.
- Created and optimized **PL/SQL stored procedures** for clinical audit exports and regulatory reports, reducing query execution time by over 60%.
- Used **Docker Compose** to simulate service environments locally, accelerating onboarding and increasing team productivity in cross-functional development.
- Developed Groovy and Bash scripts to automate **build validation, log cleanup, and health checks** for daily Jenkins deployments, reducing manual QA bottlenecks.
- Migrated batch jobs to **Spring Scheduler with JDBC templates**, improving visibility, error handling, and overall job stability.
- Designed **multi-threaded** backend workflows using **JMS** with retry logic and **DLQs** to ensure high-throughput, **fault-tolerant** batch job execution.
- Contributed to sprint planning and retrospectives in Agile teams, created **UML diagrams** for new modules, and ensured clear documentation during handoff cycles.

***Environment**: Java 11, Spring Batch, JMS, Spring MVC, Hibernate, PL/SQL, Oracle, Struts, REST, JUnit, Apache Kafka*

Projects:

- **Job Board Application**
  Tech Stack: Java, Spring Boot, MongoDB, React, Redux, Tailwind CSS
  Designed and built job tracking platform with role-based authentication. Recruiters can post/delete jobs; candidates can sign up, apply, and track applications. Integrated secure JWT auth, REST APIs, and responsive UI using Tailwind.
- **Expense Tracker App**
  Tech Stack: Java, Spring Boot, MySQL, React, Axios, Tailwind CSS
  Built a personal expense management app with custom UI. Users can track income/expenses, categorize transactions, and visualize spending. Backend includes robust RESTful API with Spring Boot and MySQL data persistence.

AI & GenAI Knowledge (Academic & Self-Learning)

- Gained foundational knowledge of LLMs, prompt engineering, and GenAI workflows during master's coursework.
- Explored OpenAI APIs, LangChain, and GPT-4 for content generation, summarization, and context-based Q&A.
- Studied Retrieval-Augmented Generation (RAG) pipelines and AutoGen frameworks for intelligent task orchestration.
- Applied learning to demo use cases like job-matching assistants and knowledge-based search workflow