

Anudeep Allamsetty

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PROFESSIONAL SUMMARY

- **Java Full Stack Developer** with **5+** years of experience in IT industry comprising of **Java/J2EE** enterprise web application design, development, maintenance & support involving all **SDLC activities** like requirements analysis, **design, implementation, reviews, unit testing, integration testing** and **production deployments**.
- Proficient in building **RESTful** and **GraphQL APIs** with **Spring Boot** and **Java (8-17)**, implementing layered architecture with **DAO, DTO, and Service layers**. Applied **MVC, Singleton, Factory, Value Object, and Business Delegate design patterns** to ensure robust and maintainable code structures.
- Built scalable **SPAs** using **Angular 17 (NgRx, Lazy Loading, Interceptors)** and **React.js (Hooks, Context API, Redux Toolkit)**. Focused on clean **UI architecture** with reusable component design and role-based routing strategies.
- Expert in deploying cloud-native applications using **AWS (EC2, S3, Lambda, CloudWatch)** and **Azure (Functions, App Services, Monitor)**. Created infrastructure automation with **Terraform** and **YAML** for seamless environment provisioning.
- Designed **Kafka-based** event-driven **pipelines** and integrated **RabbitMQ/JMS** for **async** communication. Used **Kafka Streams** and **WebSockets** for real-time messaging and notification systems.
- Led **DevOps pipelines** with **Jenkins, GitHub Actions, Azure DevOps**, and containerization through **Docker** and **Kubernetes**. Built **Helm charts** for **Kubernetes deployment** with **auto-scaling** and **rolling updates**.
- Built reporting dashboards using **AG Grid** with **server-side pagination, sorting, and filtering** on datasets exceeding **1M records**. Created **dynamic UI flows** using **Angular Forms, RxJS, and Observables**.
- Implemented **OAuth2** and **JWT authentication** with **Spring Security** and **Okta integration** for **SSO**. Managed **RBAC** and **CSRF** protection across **APIs** and **UI platforms**.
- Managed relational and **NoSQL** data persistence using **MySQL, PostgreSQL, Oracle, MongoDB, Cassandra, and Redis**. Created **PL/SQL** stored procedures and optimized complex queries for performance.
- Documented **APIs** using **Swagger/OpenAPI** and supported **integration testing** with **Postman collections** and **REST-assured**. Reduced **integration defects** by **30%** through clear documentation and contract testing.
- Maintained legacy enterprise modules using **JSP, Struts, J2EE**, and **converted monolithic services** to **microservices** using **Spring Boot** with **backward compatibility**.
- Hands-on experience with **IDEs** like **Eclipse, MyEclipse, NetBeans**, and **WebSphere Portal**. Familiar with tools like **Bamboo, CVS, and SVN** for **legacy configuration** and builds.
- Practiced **Agile (SCRUM)**, **Iterative**, and **Waterfall methodologies**. Participated in **daily stand-ups, sprint planning, retrospectives**, and client demos while mentoring junior developers.
- Developed **UML artifacts** including Use Case, Class, and **Sequence diagrams** during design phase to ensure clarity in requirements and architecture planning.
- Executed functional test automation using **Cypress, Selenium, and Playwright**. Ensured over **90%** test coverage for **UI and API modules**, reducing regression failures by **25%**.
- Built modules in **CONGO project** for enterprise **data transformation pipelines**, involving **Java, SQL optimization, and batch job scheduling** with **Autosys**.
- Strong experience in **Unix/Linux** environments using **Bash** and **Perl scripting**. Used **Shell scripts** for **log rotation, deployment automation, and server monitoring**.
- Explored **GenAI technologies** including **OpenAI APIs, LangChain, and Retrieval-Augmented Generation (RAG)**. Applied **LLM concepts** to build **AI-assisted workflows** for data retrieval and summarization.

TECHNICAL SKILLS

- **Languages:** Java (8-17), JavaScript, TypeScript, SQL, Python, Bash, Perl, XML, JSON
- **Frontend Technologies:** Angular (8-17), React.js, Redux Toolkit, NgRx, HTML5, CSS3, SCSS, Bootstrap, Tailwind CSS, jQuery, JSP, JSF, AG Grid
- **Backend & Frameworks:** Spring Boot, Spring MVC, Spring Security (JWT, OAuth2), Spring Batch, Spring Cloud, Spring Data JPA, Hibernate, RESTful APIs, GraphQL, Node.js, Struts, Servlets, EJB, JDBC, Microservices, Apache Tika
- **Cloud Platforms:** AWS, Azure
- **DevOps & Build Tools:** Jenkins, GitHub Actions, GitLab CI/CD, Azure DevOps Pipelines, Bamboo, Maven, Gradle, Docker, Kubernetes, Helm, Terraform, Docker Compose, WebSphere Portal
- **Databases:** MySQL, PostgreSQL, Oracle (PL/SQL), MongoDB, Cassandra, Redis, DynamoDB, CouchDB
- **Messaging & Streaming:** Apache Kafka (Kafka Streams, Avro, Schema Registry), RabbitMQ, JMS, IBM MQ, WebSockets
- **Testing & Quality Assurance:** JUnit, Mockito, Selenium, Cypress, Playwright, REST Assured, Postman, SonarQube, TestNG
- **Monitoring & Logging:** AppDynamics, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, Azure Monitor, CloudWatch Logs

- **Architecture & Modeling:** Design Patterns (MVC, Singleton, DAO, Factory, Front Controller, Value Object, Business Delegate), OOP, Parallel Processing, UML (Use Case, Class, Sequence, Activity Diagrams), PlantUML
- **Version Control & Repo Management:** Git, GitHub, GitLab, Bitbucket, SVN, CVS, Nexus
- **IDEs & Developer Tools:** Eclipse, IntelliJ IDEA, MyEclipse, NetBeans, Visual Studio Code, WebSphere Portal, Brackets
- **Process & Methodologies:** Agile (SCRUM), Waterfall, Iterative SDLC, TDD, BDD, DevSecOps, GitOps
- **AI & GenAI (Academic and Practical Exposure):** Prompt Engineering, OpenAI API, LangChain, Hugging Face (basic), GPT-4, Retrieval-Augmented Generation (RAG), AutoGen

PROFESSIONAL EXPERIENCE

Client: Zurich Insurance Group, Overland Park, Kansas, USA

Role: Java Full Stack Developer

Jan 2024 – Present

Description: Zurich Insurance Group Ltd. is a Swiss insurance company. Develop and maintain server-side logic using Java and frameworks like Spring Boot or Hibernate. Implement RESTful APIs to interact with databases and external services. Work on microservices architecture for scalability.

- Led the **Migration of monolithic claim processing modules to Spring Boot-based microservices**, introducing **domain-driven service boundaries**, improving deployment agility by 60%, and enabling **horizontal scaling** and **fault isolation**.
- Designed and deployed **RESTful microservices** using **Spring Boot** and **Java 17**, implementing **layered architecture** and **exception handling** to modularize claims workflows and reduce maintenance complexity.
- Built a **Kafka-based claim processing pipeline**, utilizing **Kafka Streams API** for real-time transformation and message enrichment, processing over 100K+ insurance claims per day with 99.9% accuracy.
- Automated infrastructure provisioning with **Terraform scripts** to deploy **EC2, S3, and IAM** configurations in **AWS**, enabling consistent and secure **cloud environments** for **dev** and **QA** teams.
- Developed **Angular 17** dashboards with **reusable components**, **lazy loading**, and **NgRx Effects** for state management, reducing **API call** duplication and improving app responsiveness by 40%.
- Used **AG Grid** with **virtual scrolling** and infinite row model to display policyholder datasets, improving **UI performance** for datasets exceeding 1 million rows.
- Implemented **Spring Security** with **JWT** and **OAuth2 authentication**, integrating **Okta SSO** for seamless user login and access control across distributed modules.
- Improved **backend performance** by **integrating Redis** caching for frequently accessed endpoints, reducing average response time from 1.2s to under 500ms.
- Created **API documentation** using **Swagger** and **OpenAPI**, improving onboarding speed by **30%** for new developers and QA teams.
- Deployed **containerized services** using **Docker** and **Kubernetes**, configured **Helm charts** for scalable deployment in **UAT** and **production clusters**.
- Integrated **AppDynamics** and **AWS CloudWatch** for performance monitoring, setting up alerts for memory leaks and reducing mean time to resolution by 50%.
- Designed **GraphQL APIs** for customer policy **lookups** using resolvers, enabling **dynamic querying** from **React-based portals**.
- Managed **CI/CD** pipelines using **Jenkins** and **SonarQube** integration to enforce **code quality** gates during builds.
- Mentored 2 junior developers on applying **design principles** such as **Dependency Injection** and **Open/Closed Principle** to improve maintainability.
- Led bi-weekly **sprint planning** and grooming sessions, ensuring alignment on business priorities and sprint goals.
- Authored **UML sequence** and **activity diagrams** to visualize **API interactions** and simplify discussions during design reviews.
- Developed **Bash** and **Perl scripts** to **automate deployment** checks and log archival processes for compliance audits.

Client: Seaboard Corporation, Merriam, Kansas, USA

Role: Java Full Stack Developer

Sep 2022 – Dec 2023

Description: Seaboard Corporation is a diverse multinational agribusiness and transportation conglomerate with integrated operations in several industries. I developed the user interfaces using JavaScript, HTML, CSS, and modern frameworks like Angular or React. Ensured responsive design and smooth functionality across devices. Worked with relational databases such as Oracle or MySQL and NoSQL databases like MongoDB.

- Developed a commodity pricing dashboard using **React.js** with **Redux Toolkit** and **asynchronous middleware (Thunk)**, supporting real-time updates from **Kafka topics** and **REST APIs**.
- Created **Spring Boot microservices** with **PostgreSQL** and **JPA**, using **DTO transformation** and **ModelMapper** to separate domain models and **REST payloads**.
- Configured **Azure Functions** to send **alert notifications** to **procurement managers** upon **inventory threshold breaches**, reducing stock-out risk by 25%.

- **Led the UI migration from legacy Angular modules to a modern React.js architecture**, ensuring component reusability, consistent state management with **Redux Toolkit**, and **seamless user experience** across platforms.
- Built **reusable Angular 15** modules using **Reactive Forms** and **custom validators**, enabling **dynamic form generation** for admin workflows.
- Implemented **RabbitMQ queues** to **decouple order** submission from **inventory allocation service**, improving system throughput and resiliency.
- Designed and deployed **Azure DevOps pipelines** with **environment-specific variables** and **gated approvals**, streamlining **QA releases** with **rollback capability**.
- Used **Angular interceptors** for **global error handling** and **JWT token refresh**, reducing **login issues** and **unauthorized errors** in session workflows.
- Hosted frontend on **Azure Blob** with **integrated CDN**, reducing **page load times** by 35% for global users.
- Created telemetry tracking with **Azure Application Insights**, logging **user behavior** and **enhancing UX** analysis with event **heatmaps**.
- Maintained legacy **Struts reporting modules**, migrated reusable parts to **react** and **improved backend** response by **rewriting queries** using **Hibernate Criteria API**.
- Used **Spring Profiles** to configure **environment-specific property** loading, simplifying **multi-env builds**.
- Developed **Kafka consumers** with **schema registry integration** using **Avro**, enabling contract validation for real-time data ingestion.
- Designed **SQL** stored procedures to aggregate shipment data for **dashboards**, cutting processing time from **7 minutes to under 2 minutes**.
- Wrote **Cypress test suites** for **functional regression coverage**, integrated into **CI pipeline** using **Azure DevOps test runner plugin**.
- Created **UML diagrams** for **architecture handoff** and design reviews, standardizing new feature onboarding.
- Implemented **Singleton**, **Front Controller**, and **Business Delegate** patterns in **backend services** to **reduce coupling** and **improve scalability**.

Client: Cognizant (Key Bank), Chennai, India

Role: Java Full Stack Developer

Aug 2021 – May 2022

Description: KeyBank is a prominent financial services company, specifically a bank, that serves individuals and businesses. Implemented and maintained the CI/CD pipelines using tools like Jenkins, GitLab CI/CD, or other CI/CD platforms. Automated deployment processes, monitor application health, and support production environments.

- **Migrated legacy banking apps from Struts to Spring Boot**, replacing **tightly coupled modules with RESTful services** and **DAO layers**, enabling maintainability and test automation.
- Developed **AWS Lambda functions** with **S3 triggers** to auto-process uploaded **KYC documents**, validating metadata using **Apache Tika**.
- Integrated **DynamoDB** with **Spring Data** for flexible **NoSQL querying** and configured **read/write** capacity to **auto-scale** with usage.
- Created **customer onboarding** form using **React multi-tab layout** and **Context API**, improving input validation and user experience.
- Implemented **JWT-based** session tokens with **Spring Security** and **integrated CSRF protection** for **secure web transactions**.
- Configured **Jenkins pipelines** with **GitLab Webhooks** and **Docker build stages**, enabling **parallel builds** and **faster feedback loops**.
- Wrote unit tests in **JUnit5** and **integration tests** using **Mockito** to **mock DB/service dependencies**, achieving 92% backend test coverage.
- Deployed apps in **Kubernetes** with **Helm charts**, leveraging **rolling updates** and **liveness probes** to maintain uptime.
- Configured **ELK Stack** for **centralized log aggregation**, used **Kibana dashboards** to visualize **key transaction errors**.
- Migrated legacy **JSP-based reports** to **REST-based export APIs** with **Excel/CSV** support, reducing report generation time.
- Created **dynamic PL/SQL** stored procedures to support audit exports for regulatory reporting.
- Participated in enterprise **Agile transformation** by **transitioning legacy Waterfall modules to SCRUM format** and **sprint delivery**.
- Authored **class** and **sequence diagrams** for **legacy-to-microservices architecture migration**, improving system documentation.

Client: Solara Active Pharma Sciences Ltd, Chennai, India

Role: Java Developer

Mar 2019 – Jul 2021

Description: Solara Active Pharma Sciences Limited (SAPSL) is an Indian, global pure-play API (Active Pharmaceutical Ingredient) company. Worked in Agile/Scrum environment, participate in daily stand-ups, sprint planning, and retrospectives. Utilized the Maven or Gradle for project build automation, dependency management, and packaging

- Developed **Spring Batch jobs** to automate inventory restocking and compliance tracking, **reducing manual intervention** by 70%.
- Created **full-stack modules** using **React** and **Spring Boot** for clinical trial **data entry** and **review with audit trail** logging.
- Integrated **MongoDB** with **Spring Data** for managing **unstructured clinical notes**, configured **TTL indexes** for **auto-archival**.
- Developed **multi-threaded JMS** consumers with **retry** and **dead-letter handling** for robust messaging.
- Built legacy **JSP** and **Struts forms** for approval **workflows** in regulatory **submission process**.
- Deployed **web apps** on **WebLogic server** and automated **daily builds** using **Maven** with **post-build scripts**.
- Developed **Groovy scripts** for **Jenkins jobs** to handle environment validation and **dependency checks**.
- Practiced **SDLC rigor** with **Jira/Confluence** documentation, **supported QA** in **writing test cases** and **triaging bugs**.
- Enhanced **DB performance** by **optimizing Oracle queries** and rewriting **nested subqueries** into **indexed joins**.
- Used **Docker Compose** to **mock services locally** and accelerate **developer onboarding**.
- Refactored legacy **CONGO batch modules** with **Spring Scheduler** and **JDBC templates** for better maintainability.
- Designed **activity** and **class diagrams** for **clinical workflows**, enabling **cross-team clarity**.
- Developed **Perl** and **Bash scripts** for **auto-deploying patch builds** and verifying **logs** across **QA nodes**.
- Used **Playwright** for **UI test automation** in **React forms**, including file uploads and **multi-step submissions**.
- Collaborated on iterative **product delivery** using **Agile** and contributed to **sprint demos** and **retrospectives**.

EDUCATION

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

August 2022 – May 2024

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

CERTIFICATIONS & ACHIEVEMENTS

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