

Dheeraj Alladi

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Professional Summary

Full Stack Developer with 6+ years of experience building and supporting scalable, secure, and cloud-native enterprise applications across **banking, healthcare, and e-commerce domains**. Strong expertise in **Java** (8/11/17), **Spring Boot**, and **microservices** architecture, developing high-throughput backend services, secure **RESTful APIs**, and event-driven systems using **Kafka** and **RabbitMQ**. Proven experience integrating Identity and Access Management (IAM) with **OAuth 2.0**, JWT, and Azure Active Directory, enforcing security at the API layer in regulated environments. Skilled in cloud deployments and modernization on **AWS** and **Azure**, containerization with **Docker** and **Kubernetes**, and CI/CD automation using **Jenkins**, **GitLab CI**, and **Azure DevOps**. Hands-on full-stack experience with **React**, **Angular**, and **TypeScript**, delivering responsive user interfaces for operational and customer-facing platforms. Known for applying strong engineering fundamentals, system design principles, performance optimization, and test-driven development to deliver reliable, production-ready solutions.

Skills

- **Languages:** Java 8/11/17, Python, JavaScript, TypeScript
- **Frameworks:** Spring Boot, Spring Batch, Spring MVC, Spring Security, Spring Cloud, JPA, Hibernate
- **Microservices:** RESTful APIs, GraphQL, Microservices Architecture, API Development.
- **Frontend:** React.js, Angular, TypeScript, HTML5, CSS3, Redux
- **Databases:** PostgreSQL, Oracle, IBM DB2, MySQL, DynamoDB, Cassandra, MongoDB
- **Cloud Platforms:** AWS (EC2, Fargate, IAM, S3, RDS, Lambda, ElastiCache, Redshift, CloudWatch), Azure (AKS, Azure Active Directory, Key Vault)
- **CI/CD:** Jenkins, GitHub Actions, GitLab CI/CD, Docker, Kubernetes, Terraform, Maven, Gradle, IaC
- **Other Tools:** Apache Kafka, RabbitMQ, Git, JIRA, Postman, Swagger, Splunk, Grafana, Kibana, ELK, UNIX/Linux.
- **Concepts:** OOPs, Design Patterns, Collections, Data Structures, Algorithms, System & API Design Principles, Security & Identity Management (IAM), Performance Optimization & Reliability.
- **Methodologies:** Agile, Scrum, Kanban, TDD, SDLC, Pair Programming, SOLID Principles

Work Experience

Java Full Stack Developer

Client: Northern Trust, Chicago, Illinois

September 2024 – Present

- Contributed to **Java 17 Spring Boot**-based distributed **microservices** within enterprise banking and wealth-management platforms, supporting high-throughput and reliable backend services for transaction processing, document workflows, integrations, and modernization initiatives in regulated environments.
- Implemented **Identity and Access Management (IAM)** controls at the **RESTful service layer** using Spring Security, OAuth 2.0, JWT, and Azure Active Directory (AAD), enabling secure authentication, role-based access control, and single sign-on (SSO) across enterprise banking platforms.
- Supported **third-party integrations** with external financial data providers through **secured RESTful APIs**, collaborating with platform and integration teams to enable compliant data exchange within enterprise banking systems.
- Developed **frontend feature modules** within large-scale banking platforms using **React**, **Angular**, and **TypeScript**, building reusable UI components that surface transaction status, service health, and operational data consumed from **REST** and **GraphQL APIs**, for internal operations and support users.

- Supported **cloud modernization initiatives**, assisting with the migration of applications from **Pivotal Cloud Foundry (PCF)** to **Microsoft Azure (AKS)** via Azure DevOps pipelines and the transition from **MarkLogic** to **Azure Cosmos DB**, contributing to improved scalability and cost efficiency while leveraging **Docker and Terraform** for containerization and infrastructure automation.
- Contributed to **event-driven backend workflows** using **Apache Kafka**, publishing and consuming transactional events leveraged by downstream services for **auditability, monitoring, and asynchronous processing**, while preserving core transaction performance and contributing to measurable latency improvements (~30%) in targeted processing flows
- Worked primarily with relational databases like **Oracle, PostgreSQL** and supported integrations with **IBM DB2** and **MongoDB**, assisting with query optimization, schema changes, and performance tuning under established data governance processes.
- Contributed to **CI/CD pipelines** using **Jenkins, GitLab CI, TeamCity, and Azure DevOps**, assisting with build configuration, automated testing, and controlled deployments in compliance-driven environments.
- Wrote and maintained unit and integration tests using **JUnit, Mockito, and TestContainers**, following **TDD practices**, validating API behavior with **Postman and Swagger**, and contributing to code quality and static analysis checks using **SonarQube** across shared codebases.
- Assisted with **centralized logging, monitoring, and production support** by instrumenting services with **Log4j2 and Slf4j**, and using **Splunk** to analyze application logs, diagnose production issues, and support operational stability and security monitoring within regulated enterprise systems.
- Worked within **Agile/Scrum teams**, contributing to sprint planning, backlog refinement, story estimation, and code reviews, while collaborating closely with **QA, DevOps**, and platform engineering **teams** to support reliable end-to-end feature delivery.

Software Engineer

Client: Johnson & Johnson, New Brunswick, NJ

July 2020 – July 2023

- Developed **Java 17 Spring Boot microservices** using **Spring Data JPA**, applying Core Java (OOP, Collections, Streams) to support high-volume prescription and inventory workflows in **HIPAA-compliant healthcare systems**.
- Designed and secured **REST API** with **OAuth2/JWT** and **audit logging**, enabling traceability of all PHI-related access requests and reducing audit findings by **30%**.
- Implemented **FHIR and HL7-based integrations** with external partner systems and **Electronic Health Records (EHRs)**, reducing onboarding time by ~**40%** and improving interoperability and regulatory reporting accuracy.
- Engineered and optimized relational database schemas in **PostgreSQL and MySQL**, applied data modeling techniques using **modeling tools** (ERD/Schema design) and indexing strategies to improve claims-processing performance.
- Improved backend stability through systematic debugging and profiling, resolving recurring defects in prescription workflows and reducing production incident tickets by ~**25%**.
- Integrated **RabbitMQ** using **Spring AMQP** to decouple backend workflows, improving system resilience and asynchronous processing reliability.
- Containerized backend services using **Docker** and deployed to **AWS ECS (Fargate)**, supporting **CI/CD automation** with **Jenkins and AWS CodePipeline**, reducing release cycles from **weeks to days**.
- Enhanced **application observability** using **AWS CloudWatch, Datadog, and structured logging**, contributing to a ~**45%** improvement in MTTR during production incidents.
- Practiced **Test-Driven Development (TDD)** and implemented **regression and automated testing** using **JUnit, Mockito, and TestNG**, achieving 90%+ coverage and reducing production defects by 20%.
- Collaborated within **Agile Scrum teams**, participating in sprint planning, code reviews, and mentoring junior engineers, contributing to improved delivery velocity and code quality.

- Contributed to the development of **Java Spring Boot-based microservices** supporting **core e-commerce workflows** including **product catalog management, order placement, and customer accounts** within a high-traffic retail platform.
- Developed and maintained **RESTful APIs** using **Spring Security, OAuth 2.0, and JWT**, enabling **secure authentication and session management** across web and mobile shopping experiences.
- Supported frontend-facing services and tooling using **Node.js** alongside Java Spring Boot services, enabling efficient API aggregation and **GraphQL** integrations for high-traffic e-commerce workflows.
- Built and enhanced **frontend components** using **React and Vue.js**, implementing **shopping cart, checkout, and product browsing flows** with **Redux-based state management** and responsive UI design for mobile and desktop users.
- Deployed and supported microservices on **AWS ECS (Fargate)**, contributing to **CI/CD automation** using **Jenkins and Terraform** to support frequent, reliable releases during sales campaigns.
- Contributed to **event-driven inventory and cart-tracking workflows** using **Apache Kafka**, supporting near real-time updates to inventory availability and checkout accuracy during peak traffic periods.
- Supported **data pipelines and analytics workflows** for product catalog and inventory data using **MongoDB and Cassandra**, enabling downstream reporting and operational insights for merchandising and supply teams.
- Implemented **Redis caching** using **AWS ElastiCache** to reduce database load by **~30%** and improve **page load times by ~25%**, contributing to improved checkout performance and SEO rankings.
- with **API performance optimization**, including query tuning and indexing, helping reduce **catalog API response times by ~25%** during high-traffic usage.
- Monitored application health and performance using **Datadog, AWS CloudWatch, and X-Ray**, collaborating within **Agile teams** using **JIRA and Confluence** to support stable releases and rapid issue resolution.

Education

Master of Science, Computer Science
Texas Tech University, Lubbock, TX

Aug 2023 – May 2025