

MANI DURGA KANAPARTHI

Full stack Java Developer

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PROFESSIONAL SUMMARY

- Experienced **Java Full Stack Developer** with 5+ years of experience with a strong emphasis on **backend development** and comprehensive experience in various industry sectors including **finance, e-commerce, Banking, and healthcare** domains.
- Expert in **Java** core features such as **Collections, Multi-Threading, Garbage Collection**, and **Java 8** features including **Lambda Expressions, Functional Interfaces**, and **Stream APIs**.
- Proficient in **Java, Spring Boot, Hibernate, Angular, and MySQL**; Developed and deployed a **microservices** architecture that improved application performance by **30%**
- Proficient in developing robust applications utilizing the Spring Framework, with extensive hands-on experience in **IoC, AOP, MVC** architecture, **Spring Security, Spring Cloud APIs, Hibernate ORM**, Web Service Integration (**JAX-WS** and **RESTful Web Services**)
- Skilled in front-end development technologies such as **HTML5, CSS3, JavaScript, React JS, Bootstrap, Node.js, DOM, and Ajax**, ensuring a seamless user experience.
- Proven ability to design and implement **microservice data pipelines** using **Spring Boot, RabbitMQ, and Eureka Server, Kafka, Redis**.
- Experienced in **backend development** utilizing Java Spring Boot, MySQL, and Spring Data JPA, ensuring efficient and scalable applications
- Adept at configuring and managing message brokers like **Kafka** and **RabbitMQ** for real-time data processing.
- Expertise in **DevOps CI/CD** processes, integrating **Jenkins** with **Docker** and **GitHub**, and automating build and deployment pipelines using **Maven/Gradle** and automation tools.
- Hands-on experience with **containerization** technologies, deploying and managing applications within Docker and Kubernetes.
- Comprehensive knowledge of AWS services such as **EC2, S3, Elastic Load Balancer**, and **Elastic Beanstalk**, facilitating scalable and resilient cloud solutions.
- Familiar with Agile development methodologies and the twelve-factor app principles, ensuring high-quality and maintainable code.
- Strong background in Test Driven Development (**TDD**) using **JUnit** and **Mockito**, and proficiency in API testing with **Postman**.
- Experienced in implementing templating engines like Thymeleaf for dynamic web applications.
- Experience in UI web applications development using HTML5, CSS3, JavaScript, **TypeScript, jQuery, Bootstrap, AJAX, JSON**, Thymeleaf 3.0 end-to-end delivery.
- Solid understanding of **Solid Principles** and **design patterns** including Singleton, Proxy, Factory, and Prototype, applied to create efficient and maintainable codebases.
- Expertise in **object-oriented design** and system architecture, troubleshooting and delivering robust and scalable software solutions.
- Expert level knowledge in Software Development Life cycle (**SDLC**) processes for Agile (**Scrum**), Waterfall methodologies.
- Possess strong **communication skills**, including excellent **verbal communication, problem-solving** and proven written and verbal communication skills for effective **collaboration** and documentation.

TECHNICAL SKILLS

Programming Languages: Java, C++ Python

Front End Technologies: HTML 5, CSS3, JavaScript, AJAX, JSON, XML, React, Redux, Tailwind CSS, Angular

Spring/ Java Frameworks: Spring Boot, Spring MVC, Spring IoC, Spring Cloud, Spring Security

ORM Frameworks: Hibernate, Java Persistence API (JPA)

Web services: RESTful API, SOAP

Databases: Oracle, MySQL, PL/SQL, NoSQL, SQL server, Cassandra

Version Control: GIT, GitHub

Build & Automation tools: Maven, Gradle, ANT, Jenkins, Ansible

Testing Tools: JUnit, Mockito, Postman, Jersey, Log4j, SonarQube, TDD

Monitoring & Security: Prometheus, Grafana, Splunk, OAuth2, JWT, RBAC, Linux

Cloud Technologies & DevOps: AWS (EC2, S3, EBS, RDS, ECS, EKS, DynamoDB, IAM, AWS Lambda, CloudWatch, Azure

Project Management/ Collaboration: Jira, Confluence, Agile/Scrum

IDE & Code Editors: Eclipse, IntelliJ IDE, Text, Notepad, Sublime, Web Storm

Containerization tools: Docker, Kubernetes

WORK EXPERIENCE

Full Stack Java Developer Ally Bank, New York, USA

Jan 2024 – Present

- Developed responsive SPAs and customer dashboards using ReactJS, Redux (state management), and Responsive Design, improving customer engagement across financial markets by 30%.
- Developed SPAs and customer dashboards using ReactJS, Redux, Responsive Design, and state management, improving user engagement and client satisfaction across digital channels.
- Built RESTful APIs with Spring Boot 3, Spring Data JPA, and AWS SDK, handling JSON/XML payloads for web and mobile platforms in financial markets.
- Migrated monolithic applications into AWS Lambda-based microservices backed by DynamoDB, with secure access via OAuth 2.0 and Spring Security compliance standards.
- Implemented event-driven pipelines using Apache Kafka, Spring Cloud, AWS SQS/SNS, and Redis caching to achieve real-time, low-latency processing of customer transactions.
- Designed and executed unit tests with JUnit, Mockito, Selenium in a TDD environment, ensuring full coverage across the SDLC and compliance-driven releases.
- Automated infrastructure as code using Terraform, AWS CloudFormation, and Helm; deployed on Ubuntu servers with Bash scripting for operational tasks.
- Enhanced observability by configuring Prometheus, Grafana, Nagios, and implemented Log4j logging, improving incident detection and resolution by 40%.
- Designed and published API documentation with Swagger (OpenAPI 2.0), improving developer onboarding and reducing integration defects.
- Implemented CI/CD pipelines in Jenkins, leveraged GitHub Actions for utilities, and managed enterprise repositories with Git and SVN, cutting deployment effort by 80%.
- Delivered end-to-end micro-frontend architecture using React for modular integration, reducing release conflicts and accelerating feature delivery.
- Used Hibernate/JPA to optimize database queries; designed complex SQL/HQL for reporting and analytics, improving query performance by 30%.
- Automated infrastructure provisioning across hybrid cloud environments (AWS + GCP) Google Cloud to support financial products, aligning with business models and product analytics.
- Designed custom readers/writers in Spring Batch for high-volume batch jobs, improving scalability of regulatory and compliance processes.
- Collaborated with cross-functional teams (product management, risk management, financial market advisors) to align technical solutions with evolving business models.
- Ensured information security and web security compliance by integrating RBAC with AWS IAM and Spring Security, protecting sensitive financial data.
- Developed backend transformation services using Python for batch ETL and log parsing, supporting analytics and production support functions.
- Defined Git branching strategy, reducing merge conflicts by 75%; managed Jira workflows for project tracking, enhancing customer engagement and decision-making visibility.
- Delivered multiple end-to-end features across the SDLC, from design to production support, ensuring compliance with financial industry regulations.

Environment: ReactJS, Redux, JavaScript, Spring Boot 3, Spring Data JPA, AWS SDK, AWS Lambda, DynamoDB, OAuth 2.0, Spring Security, Kafka, Spring Cloud, AWS SQS/SNS, Redis, Selenium, JUnit, Mockito, Prometheus, Grafana, AWS IAM, Micro-frontend architecture, AWS CloudFormation, Terraform, Jenkins, GitLab, GitHub Actions, Hibernate, PostgreSQL, Spring Batch, Swagger 2, OpenAPI, Maven, Ant, Log4j, Git, SVN, Nagios, Python, GCP (Cloud Functions, Cloud Storage), Jira

Full Stack Java Developer
Tata Consultancy Services, Hyderabad, India

Jun 2021 – Jun 2023

- Revamped credit-risk and compliance workflows using Angular (TypeScript) and Spring Boot 2, reducing loan approval time by 25% and ensuring alignment with risk management policies.
- Designed and implemented responsive SaaS UIs for capital markets platforms, improving customer engagement and client retention by 25%.
- Developed and optimized RESTful APIs with Spring Boot; applied caching, indexing, and YAML-based cloud infrastructure configurations to enhance system reliability.
- Migrated monolithic banking modules into scalable microservices, leveraging Apache Kafka for real-time financial market event streaming and Spring Batch for large-scale data jobs.
- Applied multi-threaded programming with Java 8 (Streams, Lambdas, Functional Interfaces) to accelerate financial data processing and reporting.
- Built ORM and business models using Hibernate/JPA with MySQL; executed advanced SQL, HQL, and stored procedures for analytics and compliance checks.
- Integrated AWS cloud services (S3, Lambda) for secure artifact storage and automation; containerized deployments with Docker and automated CI/CD pipelines using Jenkins.
- Delivered production support by automating RCA and monitoring tasks with Python and PowerShell scripts, reducing recurring incidents by 80%.
- Collaborated with cross-functional teams in product management, financial markets, and risk analysis to deliver compliant, high-performing banking solutions.
- Documented system architecture and compliance workflows in Confluence; participated in Agile/Scrum ceremonies, ensuring decision-making aligned with capital markets and financial business goals.

Environment: Angular (TypeScript), Spring Boot 2, Spring MVC, Spring AOP, Spring IoC/DI, JSP, JSF, AJAX, RESTful APIs, SOAP, JAX-WS, Hibernate/JPA, MySQL, HQL, SQL, NoSQL, MongoDB, Redis, AWS SDK, AWS S3, AWS Lambda, Docker, Maven, Ant, Jenkins, JUnit, Log4j, GitLab, SVN, Python, Eclipse IDE, Jira, Confluence, Agile/Scrum,

Web Developer
FedEx, Hyderabad, India

Jun 2020 – Jun 2021

- Built desktop-focused, end-to-end web interfaces using HTML5, CSS3, JavaScript (ES6) and jQuery for DOM manipulation, events, and modular UI behaviors; ensured cross-functional collaboration with UX designers and product management to boost customer engagement by 30%.
- Implemented AJAX workflows (XHR/fetch) to load data asynchronously and render JSON into dynamic tables, forms, and modals without full page reloads, improving site responsiveness for online shoppers.
- Developed server-side components in Java EE (Servlets, JSP, JSTL) following MVC principles; produced HTML views and JSON responses for front-end consumption, ensuring secure backend-to-frontend data flows.
- Applied Test-Driven Development (TDD) practices with JUnit and executed code reviews in Visual Studio Code; maintained version control with Git for collaborative development.
- Designed secure authentication flows with HTTP Sessions, cookies, and filters, addressing information security and web security vulnerabilities such as XSS and SQL injection.
- Optimized front-end performance using event debouncing, caching AJAX results, gzip compression, and minimized assets; tuned JVM-based deployments on Ubuntu servers.
- Integrated external REST APIs with AJAX, handling JSON parsing, retries, and error handling for payment gateways and third-party product services.
- Built database access layers using JDBC and Cassandra, writing parameterized SQL queries for CRUD, reporting, and analytics across customer and inventory data.
- Deployed applications on Apache Tomcat; configured web.xml, logging, error pages, and monitored JVM memory usage for scalability.
- Wrote Bash scripts, Shell Scripting in Linux/Unix to automate build, deployment, and log rotation tasks, ensuring smooth production rollouts.

Environment: HTML5, CSS3, JavaScript (ES6), jQuery, AJAX (XHR/Fetch), JSON, Java EE (Servlets, JSP, JSTL, Filters), MVC, JDBC, SQL, Apache Tomcat, REST APIs, Visual Studio, unit test, web security, Compliance, HTTP Session Management, Linux/Unix Shell Scripting, Apache HTTP Server, web.xml configuration, Data Source (JNDI), Git/SVN (if applicable)

Junior Java Programmer
NPTEL Swayam, Hyderabad, India

Jul 2019 – Oct 2019

- Developed patient-centric healthcare applications in Java EE (Servlets, JSP, JSTL) with secure login, appointment scheduling, and billing workflows; designed end-to-end flows ensuring HIPAA compliance.
- Implemented Test-Driven Development (TDD) with JUnit and Mockito to validate multi-threaded modules such as appointment booking and medical record retrieval.
- Designed JDBC-based persistence layers for MySQL/Oracle to handle patient records, prescriptions, and insurance claims with optimized queries and reporting.
- Worked with cross-functional healthcare teams (doctors, admins, IT staff) to translate requirements into working solutions, exercising decision-making and problem-solving to resolve patient data flow challenges.
- Secured web applications with input validation, encryption, and session management, preventing web security threats like XSS, CSRF, and injection attacks.
- Configured and deployed apps on Apache Tomcat/WebLogic running on Ubuntu, monitoring JVM performance and optimizing memory usage for high-volume patient data.
- Automated system tasks with Bash scripts, including server restarts, log archiving, and data backups for disaster recovery.
- Collaborated via Git version control and Agile ceremonies, enhancing traceability and continuous integration pipelines.
- Built reporting dashboards by integrating third-party REST APIs and rendering JSON/XML for compliance teams.
- Ensured strong information security practices, encrypting sensitive data and maintaining compliance with healthcare regulations.
- Explored concepts of multi-threaded and synchronization, simulating parallel tasks in sample applications.
- Learned core Java utilities like Scanner, File, Array List, and Java I/O for handling user input and file operations.
- Practiced writing unit-testable, modular code using interfaces and design principles, applying real-world patterns such as DAO in small project modules. Secured certification with distinction through graded programming assignments, demonstrating strong coding and design proficiency.

Environment: Java SE 8, Eclipse IDE, MySQL, JDBC, Git (Basics), Windows OS, Console-based Applications, OOP Concepts, Java Collections Framework, Exception Handling, Multithreading, File I/O, information security

EDUCATION

Master's, Computer Science, University of Central Missouri, MO - 3.90/4.00

Bachelor's, CMR Institute of Technology, Hyderabad, India – 3.70/4.00

ACHIVEMENTS

Certifications: AWS Certified Cloud Practitioner, Meta Certified Frontend Developer, Software Development by Microsoft, GitHub Professional Certificate, Professional Certificate in Docker

Projects: Developed an Ecommerce application using the full Stack Java (Spring Boot and React/JavaScript), Developed a Secured Chat Application using Java, Jakarta Servlets, and WebSocket to enable real-time, encrypted messaging.

Leadership and Volunteering: Led a 15-member coding club team in designing and developing the college website with advanced features; volunteered at hackathons for four years, participated in college hackathon contests, and contributed to organizing college fests and job fairs.

LINKS

GitHub: <https://github.com/Manidurga-coder>

Website: <https://mani-d-portfolio-showcase.vercel.app/>