

PRAVARDHAN BHEEMAVARAPU

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Professional Summary

- Senior Full Stack Developer with 6+ years of experience in building end-to-end enterprise applications across banking, insurance, and IT service management domains.
- Proficient in Java, Spring Boot, RESTful APIs, and React for full-stack application development.
- Extensive Java development experience using Spring, Spring Boot, and build tools such as Maven and Gradle for dependency and release management.
- Solid understanding of data structures, algorithms, and design patterns, applied to building scalable and maintainable applications
- Hands-on experience in front-end development using HTML, CSS, JavaScript (ES6+), and responsive UI design.
- Strong hands-on experience with Java, Spring Boot, microservices, SQL, and React in real-world production systems.
- Implemented data exchange using JSON and XML payloads, ensuring reliable service-to-service communication.
- Hands-on experience with CI/CD pipelines using Jenkins, Maven, Docker, and cloud platforms such as AWS and Azure, along with testing tools like Mockito, SOAPUI, and JMeter.
- Hands-on experience deploying applications to cloud and container platforms such as AWS, Kubernetes, and Cloud Foundry.
- Skilled in backend development, implementing business logic, workflows, and role-based access control using Spring Security and JWT.
- Strong knowledge of relational databases (MySQL), including schema design, ACID-compliant transactions, and query optimization.
- Extensive Java development experience using Spring, Spring Boot, and build tools such as Maven and Gradle for dependency and release management.
- Strong background in SQL-based data modeling, query optimization, and data structuring; exposure to GraphQL queries and mutations.
- Experienced in application design, backend development, REST API implementation, and automated testing.
- Integrated applications using Kafka and REST APIs to enable reliable communication between distributed services.
- Built concurrent and scalable Java components using multithreading, multiprocessing, and containerized execution environments.
- Built banking applications with account management, payment processing, and transaction handling workflows.
- Developed insurance applications for policy administration, premium tracking, and claims processing, with workflow automation.
- Created IT service management systems with service request tracking, ticket assignment, and dashboard reporting.
- Performed data analysis and optimization on enterprise databases using Oracle and PostgreSQL, improving query performance and data access patterns.
- Experienced in testing APIs with Postman, version control using Git, and applying exception handling, input validation, and logging.
- Familiar with enterprise software development concepts, including MVC architecture, OOP, audit trails, and workflow automation, ready for real-world project delivery.
- Engineered scalable microservices using Java 8+, Spring Boot, and REST APIs, improving modularity and reducing deployment conflicts by 30%.
- Integrated Hibernate/JPA ORM frameworks to streamline database operations, reducing boilerplate code and improving persistence performance by 25%.
- Familiar with workflow-driven and case management systems, with exposure to BPM frameworks such as Camunda or JBoss BPM.
- Built interactive front-end components using React, Redux, and JavaScript ES6+, improving user engagement and reducing UI response latency.
- Worked with distributed logging and monitoring tools like Splunk and Kibana to support production systems

- Implemented CI/CD pipelines using Git, Maven, and Jenkins, automating builds and reducing manual deployment effort by 40%.
- Utilized Docker containers to package and deploy microservices, increasing environment consistency and minimizing configuration issues.
- Applied core Java design patterns (Factory, Singleton, Builder) to enhance code reusability, maintainability, and long-term scalability.
- Building hands-on experience with AI, Generative AI, LLMs, and agent-based architectures, with a focus on integrating them into enterprise-scale applications and workflows.
- Collaborated in Agile/Scrum teams, participating in sprint planning, code reviews, and backlog refinement, ensuring high-quality, production-ready releases.

Professional Experience

Citi Bank | Irving, TX

Senior Java Developer

01/2024 - Current

- Led the design and development of core backend modules for digital banking applications using Java 8+, Spring Boot, Spring MVC, and microservice-based architecture.
- Architected and implemented secure authentication flows using Spring Security + JWT, enabling scalable role-based access and reducing security vulnerabilities.
- Designed high-throughput transaction-processing services backed by ACID-compliant MySQL transactions, ensuring data consistency during transfers, payments, and account updates.
- Deployed relational databases on AWS RDS (MySQL) with optimized schemas, indexing, and ACID-compliant transactions to ensure data consistency.
- Developed and optimized RESTful APIs for account onboarding, transaction history, user profile management, and operational workflows.
- Applied Infrastructure as Code concepts using Terraform / AWS CloudFormation to provision environments and manage cloud resources.
- Improved API performance by restructuring queries, optimizing schema, and implementing efficient indexing strategies.
- Implemented event-driven processing using Apache Kafka, with exposure to AWS SNS/SQS for asynchronous notifications and decoupled workflows.
- Implemented centralized exception handling, validation layers, and error monitoring to increase API reliability and reduce production defects.
- Used AWS CloudWatch and Splunk for centralized logging, metrics, alarms, and production monitoring.
- Established audit-logging frameworks for traceability, compliance reporting, and reconciliation of financial transactions.
- Containerized services using Docker and deployed on Kubernetes / AWS EKS, improving scalability and deployment consistency.
- Implemented event-driven processing using Apache Kafka, with exposure to AWS SNS/SQS for asynchronous notifications and decoupled workflows.
- Containerized services using Docker and deployed on Kubernetes / AWS EKS, improving scalability and deployment consistency.
- Enforced secure coding practices across the team, including password hashing, input sanitization, and protection against OWASP Top 10 threats.
- Configured AWS ALB, Security groups and Route 53 to enable secure traffic routing and service discovery.
- Collaborated with cross-functional teams (QA, DevOps, Product, UI) to support CI/CD pipelines, code reviews, debugging, and production deployments.
- Mentored junior developers on Java best practices, API design patterns and performance optimization techniques.

CHUBB | Hyderabad, Telangana
Software Developer
03/2020 - 07/2023

- Developed and enhanced insurance administration modules using Java, Spring Boot, Spring MVC, improving policy issuance and premium servicing workflows.
- Built RESTful APIs for policy creation, updates, renewals, and claims processing, reducing manual operations and improving system automation.
- Implemented full policy lifecycle management from underwriting approval → renewal → expiration, ensuring accurate state transitions and validations.
- Designed billing and premium tracking services with automated due-date reminders and status updates, reducing overdue accounts.
- Created end-to-end claims processing workflow including submission, assessment, approval/rejection, and settlement.
- Integrated services using Apache Kafka and asynchronous messaging patterns to improve system resilience.
- Optimized MySQL schema and SQL queries for policy, coverage, and claims data, improving query performance and reducing response time.
- Implemented monitoring and log analysis using Splunk and CloudWatch dashboards to reduce production incidents.
- Built rule-based validation frameworks to detect inconsistent or high-risk claims, strengthening fraud detection and reducing processing delays.
- Added role-based access control (RBAC) using Spring Security to secure data access for agents, policyholders, and administrators.
- Integrated audit logging and activity tracking to support compliance, traceability, and reporting requirements.
- Collaborated with QA and business teams for requirement gathering, testing, and deployment, ensuring smooth release cycles and minimal production issues.

LTI Mindtree | Hyderabad, Telangana
Full Stack Developer
02/2018 - 02/2020

- Developed responsive UI screens using React, HTML5, CSS3, and JavaScript, improving page load time by 25% and reducing UI defects by 30%.
- Built and optimized backend services using Java, Spring Boot, and REST APIs, increasing API response efficiency by 40%.
- Implemented secure authentication using Spring Security + JWT, reducing unauthorized access attempts by 50%.
- Deployed containerized applications using Docker and gained exposure to AWS ECS/EKS concepts.
- Designed normalized MySQL database structures that improved query performance by 35% and reduced redundancy by 20%.
- Developed ticket lifecycle workflows (Open → Closed) that improved process clarity and reduced ticket misrouting by 15%.
- Used AWS S3 for document storage and implemented lifecycle policies with Glacier for cost-efficient archival.
- Created user and support dashboards with real-time metrics, increasing visibility into SLA performance and improving resolution efficiency by 20%.
- Implemented validation and exception handling layers that reduced error-related incidents by 25%.
- Added audit logs and activity tracking, improving traceability and compliance coverage by 40%.
- Collaborated under Agile sprints with product, QA, and UI teams, improving on-time delivery of features by 30%.
- Used Git, Postman, and Maven to streamline development processes, cutting build and deployment times by 15%.

Professional Skills

- **Programming:** Java , JavaScript, SQL, Python, Shell Scripting, Informatica, CDC, ETL Pipelines.
- **Frontend:** React.js, HTML5, CSS3, JavaScript ES6+, Responsive UI Design.
- **Messaging & Streaming:** Apache Kafka, AWS SNS, AWS SQS.
- **Databases:** MySQL, PostgreSQL, Oracle, Query Optimization, Schema Design, ACID Transactions.
- **BI & Reporting:** Power BI, Tableau, Excel Automation, Data Modeling, KPI Dashboards.
- **Backend:** Spring Boot, Spring MVC, Spring Security, REST APIs, Microservices, Hibernate/JPA.
- **Cloud & DevOps:** AWS(EC2,RDS,S3,Glacier,CloudWatch,Route 53,ALB,WAF,Lambda),AWS ECS,AWS EKS,TerraForm,CloudFormation,Azure,Docker, Kubernetes,Jenkins,Git,CI/CD.
- **Data Processing:** Kafka, Spark, Airflow, ADF, SSIS,
- **Tools & Platforms:** GitHub, GitLab, Maven, Gradle, Postman, Swagger/OpenAPI.
- **Testing:** JUnit, Mockito, API Testing, Debugging, Logging.
- **Methodologies:** Agile/Scrum, Sprint Planning, JIRA, Confluence, Code Reviews.
- **Observability:** Splunk, AWS CloudWatch, Grafana, SignalFx.
- **Security:** JWT, RBAC, Secure Coding, OWASP Top 10, Input Validation.

Education

The University of Texas At Arlington | Arlington, Texas, TX
Master of Science in Computer Science