

Vineetha Guntumadugu

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Professional Summary

Results-oriented Java Developer with 8 years of hands-on experience in designing and developing enterprise-grade applications. Proficient in Java (8/11/17), Spring Boot, Microservices, RESTful APIs, and frontend technologies like React.js and Angular. Experienced with database management using MySQL, PostgreSQL, and MongoDB. Expertise in CI/CD pipelines using Jenkins, Docker, Git, and Kubernetes for automated builds and deployments. Skilled in deploying scalable cloud applications on AWS (EC2, RDS, S3) with performance tuning. Strong experience with messaging systems like Kafka and Redis for high-throughput and resilient systems. Excellent problem-solving and debugging skills with a passion for clean, maintainable code. Successfully led agile development teams, managed sprint cycles, and collaborated with cross-functional teams to meet business goals. Completed Master of Science in Information Systems from Central Michigan University. Actively seeking opportunities to leverage technical skills to drive innovation and deliver impactful software solutions.

Technical Skills

| Category | Skills |
|-----------------------|---|
| Languages | Java, JavaScript, TypeScript, SQL |
| Backend Frameworks | Spring Boot, Spring MVC, Hibernate, JPA, RESTful APIs, Microservices, Maven, Gradle |
| Frontend Technologies | React.js, Angular, HTML5, CSS3, AJAX |
| Databases | MySQL, PostgreSQL, MongoDB |
| Version Control | Git, GitHub |
| DevOps & CI/CD | Jenkins, Docker, Kubernetes, GitHub Actions |
| Cloud Platforms | AWS |
| Messaging & Caching | Kafka, Redis |
| Testing Tools | JUnit, Mockito, Postman |
| API Documentation | Swagger, API Inspector |
| IDEs & Tools | IntelliJ IDEA, Visual Studio Code, Eclipse |

Professional Experience

Senior Java Developer

June 2024 to Present

Sysco, United States

Project Description: Worked on enhancing and modernizing the Sysco Foods enterprise application used by end-users to browse and manage food products across categories such as Dairy, Fats & Oils, and Poultry. The project involved converting a legacy monolithic system into scalable microservices using Java, Spring Boot, and PostgreSQL. Key responsibilities included designing and developing RESTful APIs, integrating Swagger and API Inspector for documentation and testing, and deploying services on AWS cloud infrastructure. The focus was placed on improving performance, modularity, and user experience across the application.

Frontend:

- Designed and developed highly interactive, component-based user interfaces using React.js and Redux, enabling efficient management of products, pricing, and orders across multiple categories like Dairy and Fats & Oils.

- Refactored legacy frontend logic into modular components and implemented routing with React Router, improving maintainability and UX.
- Applied Axios for structured API integrations and implemented a global error boundary to capture client-side exceptions gracefully, improving fault tolerance and user feedback.
- Worked closely with UX designers to implement a consistent theme across screens, incorporating SASS, conditional styling, and accessibility features (ARIA roles, keyboard navigation).
- Implemented optimistic UI updates and debounced search filters to improve application responsiveness, especially in high-volume datasets.

Backend:

- Reengineered core backend logic using Spring Boot, introducing domain-driven service separation, enabling decoupled feature deployment and better fault isolation.
- Developed secure, scalable REST APIs to handle product creation, inventory synchronization, and pricing calculations with robust input validation and logging.
- Integrated PostgreSQL with schema versioning and crafted performant SQL queries for product lookups, search filters, and order processing.
- Used Swagger/OpenAPI to auto-generate API docs and improve developer onboarding speed across teams.
- Designed business logic workflows to auto-update availability statuses across regions based on supplier data feeds.

Cloud/DevOps:

- Deployed services using Docker containers and managed AWS resources including EC2 for compute, RDS for data persistence, and S3 for image/document assets.
- Automated CI/CD pipelines via Jenkins, integrating SonarQube for code quality checks, testing stages, and auto-deployments with rollback strategies.
- Configured CloudWatch logs, created alarms for service downtime, and set up dashboards to monitor throughput, error rates, and DB connections.
- Used AWS IAM and Secrets Manager to securely manage environment credentials and service-to-service communication tokens.

Environment:

Java 8/17, Spring Boot, React.js, Redux, PostgreSQL, Swagger, AWS (EC2, RDS, S3), Docker, Jenkins, Git, SASS.

Java Developer

January 2023 to May 2024

BNSF Railway, Remote USA

Project Description: The Claims Processing Management System developed for BNSF Railway streamlines the handling of work assignment disputes raised by unionized field employees. When an employee believes that a task, which should have been assigned to them, was erroneously given to a third-party contractor, they can initiate a claim through the system. The process begins with the submission of the claim, followed by an initial review where BNSF representatives assess its validity. If the claim is deemed invalid but the union disagrees, the system facilitates a formal discussion phase between the union and BNSF to seek resolution. Should disagreements persist, the claim can escalate to an arbitration stage. Throughout each phase, the system ensures transparency by maintaining detailed records of all actions and decisions, thereby promoting accountability and efficient resolution of disputes.

Frontend:

- Developed rich, interactive UIs using Angular 9, enabling employees and supervisors to submit and review dispute claims through a step-by-step guided workflow.
- Integrated backend services using HTTPClientModule, implemented centralized interceptors for JWT handling, and introduced retry mechanisms for network faults.

- Applied RxJS extensively for stream-based event handling and real-time updates such as claim status changes, system messages, and notifications.
- Built dynamic forms with complex nested validations using Angular Reactive Forms, enforcing conditional logic like dynamic required fields based on claim type.
- Ensured fully responsive behavior across viewports using SCSS media queries, and conducted regular browser compatibility checks and performance tuning.

Backend:

- Engineered service layers in Spring Boot and Java 17 to support claim submission, review, escalation, and arbitration lifecycle phases, each with its own data schema and validation rules.
- Created a modular set of REST APIs that allowed for timeline tracking, comment threads, claim scoring logic, and multi-stage approval processes.
- Used Spring Data JPA with QueryDSL to dynamically construct efficient SQL queries based on claim filters and status types, drastically reducing manual code.
- Implemented detailed request logging with Log4j, enriched with session and user metadata for security and traceability.
- Wrote comprehensive unit and integration tests, mocking data layers and external systems to ensure robust handling of edge cases like late submission, duplicate claims, and rule exceptions.

Cloud/DevOps:

- Containerized and deployed APIs to AWS EC2, connected to RDS PostgreSQL for transactional data and S3 for file uploads including scanned claim forms and photos.
- Configured Jenkins pipelines with pre-build linting, parallel test execution, and automated artifact deployment for staging and UAT environments.
- Leveraged GitHub Actions for automated pull request validation, code coverage reports, and integration to Slack for team notifications.
- Created role-based policies using AWS IAM and documented detailed setup scripts for provisioning Dev/UAT environments with reproducible infrastructure.

Environment:

Java 17, Spring Boot, Angular 9, PostgreSQL, JPA, QueryDSL, REST APIs, AWS (EC2, RDS, S3), Jenkins, GitHub, RxJS, Log4j, SCSS

Java Developer
MidFirst Bank, USA

March 2021 to December 2022

Project Description: Worked on the Digital Banking Platform for MidFirst Bank to enable seamless online and mobile banking for retail customers. The project involved redesigning legacy screens, adding secure transaction workflows, and integrating credit and loan modules with external systems.

Frontend:

- Designed intuitive, modular components using Angular 10, providing seamless navigation and real-time responsiveness across account dashboards and transaction pages.
- Implemented advanced Reactive Forms with custom validators to support dynamic fields and conditional logic across KYC and funds transfer modules.
- Used RxJS to orchestrate real-time UI events, improving user feedback for tasks such as transaction confirmations and form validations.
- Applied SCSS for visual consistency and responsive layouts, adapting views for mobile, tablet, and desktop formats.

- Developed a session management module with idle timeout, re-authentication workflows, and secure token storage.

Backend:

- Built secure Spring Boot REST APIs to support customer profiles, payment processing, and notification services, with layered service separation for better maintainability.
- Integrated external systems for credit score retrieval using OAuth2-secured endpoints, supporting risk-based lending decisions.
- Managed customer and transactional data using Hibernate with JPA, incorporating soft deletes, audit trails, and version control.
- Implemented background jobs to process recurring payments, loan interest calculations, and notification triggers.
- Centralized error handling, logging, and input validations to enforce data quality and detect anomalies.

Cloud:

- Deployed services to AWS EC2 with RDS support for PostgreSQL and S3 for storing customer-uploaded documents.
- Automated builds and deployments with Jenkins, incorporating stage-wise pipeline jobs for development, QA, and UAT environments.
- Configured CloudWatch to monitor logs, exceptions, and system events, ensuring operational continuity.
- Collaborated with QA to manage test environments, automate smoke/regression testing, and validate service integrations.
- Used GitHub to manage repositories and facilitate code reviews and version branching.

Environment:

Java 11, Spring Boot, Angular 10, PostgreSQL, OAuth2, AWS EC2/RDS/S3, Jenkins, GitHub, RxJS, SCSS

Java Developer

September 2019 to February 2021

Kohl's, USA

Project Description: Supported the E-commerce Web Application for Kohl's online retail operations. The focus was on improving customer shopping experience, enhancing search performance, and streamlining cart and checkout features with backend services.

Frontend:

- Developed user-centric components in React.js and managed application state using Redux, supporting dynamic updates in cart, checkout, and wishlist modules.
- Integrated GraphQL queries to enable flexible data fetching from product and pricing microservices, improving responsiveness across multiple views.
- Used styled-components and media queries to achieve responsive UI behavior for diverse device form factors.
- Created custom loaders, carousels, and filter panels, enhancing interactivity and reducing visual clutter.
- Embedded tracking layers to support marketing analytics and promotional performance insights..

Backend:

- Developed Spring Boot services to support pricing rules, inventory updates, and promotions, ensuring smooth operation during high-traffic periods.
- Connected to MongoDB and Redis for managing product data, session history, and temporary cart contents.
- Implemented messaging workflows with Kafka, supporting downstream updates for shipping, billing, and email services.
- Integrated secure API endpoints for third-party services such as payment gateways, tax estimators, and shipping calculators.
- Applied Spring Security and JWT-based access control to enforce secure login and user role permissions.

Cloud:

- Packaged services with Docker and deployed them to Kubernetes, enabling dynamic scaling and isolated deployments.
- Created automated CI/CD pipelines with Jenkins, validating builds through static checks, unit tests, and approval workflows.
- Used Prometheus and Grafana to monitor system performance, manage service thresholds, and track resource consumption.
- Followed Git branching standards in Bitbucket, facilitating team collaboration, feature testing, and release versioning.
- Maintained deployment guides and rollback strategies, supporting safe and consistent production updates.

Environment:

Java 8, Spring Boot, React.js, Redux, GraphQL, MongoDB, Redis, Kafka, Docker, Kubernetes, Jenkins, Bitbucket, JWT, Prometheus

Software Engineer

November 2016 to August 2019

Virtusa, India

Project Description: Part of the development team for various client projects across banking and telecom domains. Involved in creating backend APIs, internal portals, customer onboarding modules, and reporting dashboards using Java full stack technologies.

Frontend:

- Developed interactive user interfaces using **JSP**, **JavaScript**, and **jQuery**, supporting modules like employee information management, client registration, and internal HR services. These screens served thousands of concurrent users across business units.
- Reengineered static web pages into dynamic, data-driven UIs using **AngularJS**, significantly improving load time and responsiveness across modules like leave tracking and internal chat.
- Implemented **form-level validation**, field-level masking (e.g., SSN, PAN), and UI feedback alerts to prevent incorrect user submissions and reduce rework by 30%.
- Worked closely with UX designers to introduce **responsive layouts** using **Bootstrap**, allowing the application to scale fluidly across devices including desktops, tablets, and mobile devices.
- Supported **multilingual deployments** by embedding internationalization support using AngularJS i18n, ensuring compliance with localization requirements across EMEA and APAC regions

Backend:

- Designed and developed robust, reusable APIs using **Spring MVC** and **Hibernate**, supporting modules such as KYC document tracking, employee onboarding, and customer status audits.
- Built background processing jobs using **Spring Batch** to automate document archiving, account status synchronization, and SLA breach reporting across systems.
- Wrote **complex SQL queries**, views, and stored procedures in **Oracle and MySQL**, ensuring efficient data retrieval and transactional accuracy in high-volume tables.
- Developed approval and workflow engines to manage employee leave approvals, ticket routing, and document signature collection, with flexible escalation logic configurable via properties files.
- Enforced secure role-based access control using interceptors and session-level validation for internal APIs, reducing unauthorized access issues by over 80%.
- Integrated internal modules with third-party services like SMS gateways, email servers, and internal SSO authentication using RESTful endpoints and JMS queues.

Cloud:

- Managed builds using **Jenkins**, creating nightly builds and automated deployment scripts for QA and UAT environments with rollback support.
- Handled **version control with SVN**, organizing code into modular repositories to streamline team collaboration and release coordination.
- Actively participated in **Agile ceremonies** including sprint planning, daily stand-ups, retrospectives, and demos. Took ownership of sprint stories and ensured delivery on time with proper test coverage.
- Authored comprehensive technical documentation, including API specs, architecture diagrams, data flow charts, and deployment instructions to support future scalability and onboarding of new developers.
- Collaborated with cross-functional teams including QA, business analysts, and system architects to ensure seamless integration and feature readiness for every release cycle.

Environment:

Java, Spring MVC, Hibernate, JSP, AngularJS, Bootstrap, Oracle, MySQL, Spring Batch, Jenkins, Log4j, SVN, Agile

Education**Central Michigan University**

Master of Science: Information Systems, USA

Narayana Engineering College

Bachelor of Technology: Electronics and Communication Engineering, India