

VARUN JAMMIGUMPALA

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 Rapid City, South Dakota

PROFESSIONAL SUMMARY

- 4+ years of experience as a Java Full Stack Developer specializing in **Kafka-driven event processing, Cucumber BDD automation**, and scalable enterprise applications in banking and insurance domains.
- Strong expertise in building **Spring Boot microservices**, distributed messaging systems, and secure REST APIs for high-volume financial and insurance workflows.
- Hands-on experience with **Kafka producers, consumers, topics, partitions**, and event-driven integrations supporting payments, policy updates, notifications, and real-time processing.
- Skilled in creating automated **Cucumber BDD** test suites with feature files, step definitions, JUnit, and Mockito to validate complex business rules and ensure end-to-end workflow quality.
- Proficient in developing responsive front-end components with **Angular, JavaScript, HTML5, CSS3**, and integrating them with backend microservices for seamless user experiences.
- Strong command over relational and NoSQL databases including **PostgreSQL, Oracle, PL/SQL, and MongoDB**, with experience optimizing queries and designing robust data models.
- Experienced in cloud deployment using **AWS (EC2, S3, DynamoDB)** and automating CI/CD pipelines with **Jenkins, Maven, Git, Docker**, and Kubernetes.
- Deep understanding of **Spring Security (OAuth2/JWT)**, authentication flows, and industry-standard compliance requirements for secure financial and insurance applications.
- Proven ability to deliver reliable, scalable, and high-performance systems in **Agile/Scrum environments**, collaborating closely with cross-functional teams.
- Hands-on experience developing **C# and ASP.NET MVC/Web API** applications as part of internal modules, integrating .NET services with Java microservices and front-end systems.
- Built reusable components, controllers, and REST endpoints in **C#/.NET** for form submissions, validation workflows, and backend automation tasks.
- Worked with **Entity Framework, LINQ, and .NET authentication** features to support cross-platform integration in multi-language enterprise systems.
- Strong coding foundation in object-oriented design, SOLID principles, clean code, and reusable component architecture.
- Experienced in writing **modular, testable, and scalable code** across Java, C#, JavaScript, and SQL.
- Proficient in debugging complex systems, optimizing performance, and refactoring legacy components.
- Built and maintained **full-stack features end-to-end**, from database schema design to API development to UI implementation.
- Skilled at implementing **unit tests, integration tests, and end-to-end automation** using JUnit, Cucumber, Mockito, NUnit (optional), and Postman.

TECHNICAL SKILLS

- **Programming Languages** : Java, C#, JavaScript (ES6+), TypeScript, SQL, PL/SQL, Python (Basics), HTML5, CSS3
- **Backend Frameworks** : Spring Boot, Spring MVC, ASP.NET Web API, ASP.NET MVC, Node.js (basic)
- **.NET Tools** : Visual Studio, Entity Framework, LINQ, IIS (basic)
- **Java/J2EE Technologies** : Servlets, JSP, JDBC, JMS, JAXB, JAX-WS, JSTL, Design patterns, JPA.
- **Application/Web servers** : Apache Tomcat, JBOSS.
- **Database Management** : Oracle, MySQL, PostgreSQL, Mongo DB.
- **Web Technologies** : Angular 10 & 14, React JS, HTML 5, JavaScript, CSS, jQuery.
- **Version Control** : SVN, GitHub, Bit Bucket.
- **IDE** : Eclipse, IntelliJ, Visual Studio code, Spring Tool Suite (STS)
- **Testing Frameworks** : JUnit, Log4J, Test NG, Mockito.
- **Reporting Tools** : Jasper Reports, Power BI.
- **Methodologies** : Agile, waterfall, Kanban.
- **Build Tools** : Ant, Maven, Gradle, Jenkins.
- **Cloud Systems** : Amazon Web Services, Azure, Oracle Cloud, GCP.
- **Platforms** : Windows, Linux, IOS.

PROFESSIONAL WORK EXPERIENCE

BMO Harris Bank | Java Full Stack Developer | Chicago, IL

Jan 2024 – Present

Description:

As a Java Full Stack Developer at BMO Harris Bank, I help build and modernize digital banking systems for payments, money movement, onboarding, and account servicing. I develop scalable Spring Boot microservices, integrate Kafka-based event workflows, and enhance Angular interfaces to deliver fast, secure, and reliable banking experiences. I focus on improving transaction performance, strengthening security, and supporting BMO's digital transformation with cloud-ready, high-availability solutions.

Responsibilities:

- Configured Java entities and backend database tables using Hibernate/JPA, ensuring robust ORM mapping for customer, account, and transaction data models.
- Developed Angular 7+ front-end screens for customer dashboards, transaction history, money movement pages, and account servicing workflows using JavaScript, Bootstrap, HTML5, and CSS3.
- Developed and supported C#/.NET Web API modules used internally for authentication hooks, reporting, and batch-processing utilities that integrate with Java microservices.
- Built and maintained reusable backend endpoints in ASP.NET MVC for operational dashboards and audit workflows used by internal banking teams.
- Implemented Entity Framework + LINQ queries to fetch customer metadata, transaction snapshots, and operational metrics from SQL Server.
- Collaborated with cross-functional teams using .NET and Java microservices to support hybrid cloud banking workflows.
- Built and enhanced Spring Boot microservices supporting payments, ACH transfers, wire processing, deposits, authentication, and account servicing features.
- Designed RESTful APIs consumed by BMO's online banking and mobile channels, enabling secure and real-time data exchange across digital banking services.
- Implemented Spring Security, OAuth2, and JWT to safeguard sensitive financial data, enforcing strong authentication, authorization, and PCI-compliant security controls.
- Utilized Spring Cloud for centralized configuration, service discovery, load balancing, and gateway routing to support distributed banking microservices.
- Developed Kafka producers, consumers, and topics to handle real-time payment updates, transaction events, fraud detection triggers, and notification pipelines across the digital banking ecosystem.
- Implemented Kafka Streams and message serialization (Avro/JSON) for building event-driven workflows supporting high-volume transaction processing.
- Integrated IBM MQ and Kafka for reliable asynchronous messaging between payment engines, account systems, and customer activity services.
- Built Cucumber BDD test suites to automate end-to-end scenarios for payment flows, transaction validation, authentication, and account operations.
- Created feature files, step definitions, and scenarios in Cucumber/BDD to validate business rules, compliance workflows, and API integration behavior.
- Executed automated regression suites using Cucumber, JUnit, and Mockito to ensure stability of banking microservices during deployments and version upgrades.
- Developed complex SQL, PL/SQL, and PostgreSQL queries, stored procedures, triggers, and indexes to support high-volume transaction operations and improve performance.
- Tuned queries and optimized indexing strategies to reduce response time for fund transfers, transaction lookups, and account verification processes.
- Created Spring Data repositories for SQL and NoSQL components, enabling seamless access to Oracle, PostgreSQL, and MongoDB databases.
- Implemented MongoDB for semi-structured banking log data, audit trails, and session tracking using Spring Data MongoDB.
- Deployed and managed microservices on AWS EC2, integrated S3 for secure document storage, and used DynamoDB for lightweight NoSQL banking use cases.
- Utilized AWS SDK for Java to handle encrypted storage, secure file exchange, and inter-service communication.
- Built and maintained Jenkins CI/CD pipelines, automated builds with Maven, and managed artifact deployments across dev, QA, and production environments.

- Configured automated test execution in CI/CD pipelines, enabling continuous validation of microservices with Cucumber and JUnit.
- Performed unit, integration, and BDD testing using JUnit, Mockito, Cucumber, and Spring MockMVC to ensure reliable and predictable system behavior.
- Used Postman, SOAP UI, and internal test frameworks to validate API performance, transaction accuracy, and business rule consistency.
- Ensured PCI-DSS, SOX, and bank-level compliance through secure coding practices, encryption, data masking, and role-based access controls.
- Collaborated with product owners, QA teams, architecture groups, and business stakeholders to refine requirements for digital banking capabilities.
- Contributed to Agile ceremonies including grooming, sprint planning, daily standups, and retrospectives to deliver iterative improvements to BMO's digital banking platform.

Environment: Java 8/11/17, C#, ASP.NET Web API, ASP.NET MVC, Entity Framework, LINQ, Spring Boot, Spring MVC, Spring Security, Spring Cloud, REST APIs, Microservices, Angular 7+, TypeScript, JavaScript, HTML5, CSS3, Bootstrap, Hibernate/JPA, Kafka, IBM MQ, ActiveMQ, PostgreSQL, Oracle, PL/SQL, SQL Server, MongoDB, AWS (EC2, S3, DynamoDB, EBS), Jenkins, Maven, Git, Docker, GitHub, Visual Studio, Cucumber BDD, JUnit, Mockito, Postman, SoapUI, Splunk, New Relic, JSON/XML, Linux/Unix, Agile/Scrum, Jira, Confluence.

Aditya Birla Sun Life Insurance | Java Full Stack Developer | India

Jan 2021 – Jul 2022

Description:

As a Java Full Stack Developer at Aditya Birla Sun Life Insurance, I contributed to the enhancement of core insurance systems including policy issuance, renewals, claims processing, premium calculations, and customer servicing workflows. I developed scalable backend services and intuitive UI components to support high-volume insurance operations. My work improved data accuracy, reduced processing delays, and strengthened the reliability of digital insurance platforms while ensuring compliance with regulatory and audit requirements.

Responsibilities:

- Configured Java entities and backend database tables using Hibernate/JPA, ensuring robust ORM mapping for customer, account, and transaction data models.
- Developed full-stack insurance applications using Java, Spring MVC, Spring Boot, and AngularJS to support policy management, customer onboarding, and claims workflows.
- Built REST APIs and backend modules for policy issuance, endorsements, renewals, premium billing, document generation, and customer service operations.
- Created UI components using AngularJS, JavaScript, HTML5, CSS3, AJAX, jQuery, and ReactJS for policy dashboards, customer profiles, and claim submission screens.
- Built small-scale insurance utilities using C# and ASP.NET Web API, including internal reporting tools and automated data validation services.
- Integrated C#/NET microservices with Spring Boot modules for policy updates, document generation, and customer servicing workflows.
- Utilized Entity Framework to manage and query SQL Server-based metadata used in underwriting and policy servicing.
- Enhanced legacy .NET-based components and migrated selected endpoints to modern REST structures compatible with Java services.
- Wrote efficient SQL, PL/SQL, and PostgreSQL queries, stored procedures, triggers, and materialized views to handle policy, customer, and claims data with high accuracy.
- Tuned database performance by analyzing execution plans, optimizing indexes, and restructuring complex insurance data queries.
- Migrated legacy policy and claims data into Oracle DB, ensuring clean data mapping, transformation, validation, and reconciliation.
- Applied Oracle DB security controls including roles, privileges, and access policies to safeguard sensitive customer and policyholder information.
- Integrated SOAP- and REST-based APIs for payment gateways, KYC systems, document services, and internal underwriting engines.

- Built automated CI/CD pipelines using Jenkins and Maven to deploy Spring Boot microservices and front-end builds across insurance environments.
- Developed automated Cucumber BDD test cases and JUnit test suites to validate policy rules, claims calculations, premium logic, and workflow automation.
- Used Kafka and ActiveMQ to handle event-driven insurance operations such as policy updates, premium reminders, claim status notifications, and document processing.
- Worked with MongoDB to extract, store, and transform JSON-based policy documents, customer metadata, and application logs.
- Designed Power BI dashboards for underwriting, claims metrics, and policy performance reports by integrating transformed insurance datasets.
- Built microservices using Spring Boot, Spring JDBC, Spring IOC, Spring AOP, and Spring Security to support secure authentication and authorization for internal insurance users.
- Deployed applications on Pivotal Cloud Foundry (PCF) and Azure, enabling scalable rollout across development, QA, and UAT environments.
- Performed end-to-end integration testing using JUnit, Mockito, and Cucumber to ensure accuracy of policy calculations and claims decisioning logic.
- Used IBM MQ for asynchronous communication between underwriting, payments, policy issuance, and document services.
- Implemented core Java concepts such as multithreading, exception handling, and collections to build robust insurance workflows.

Environment: Java 8/11/17, C#, ASP.NET Web API, ASP.NET MVC, Entity Framework, LINQ, Spring Boot, Spring MVC, Spring Security, Spring JDBC, Spring AOP, REST APIs, Microservices, AngularJS, Angular 7+, JavaScript, HTML5, CSS3, JSP, jQuery, Hibernate/JPA, Kafka, ActiveMQ, IBM MQ, PostgreSQL, Oracle, PL/SQL, SQL Server, MongoDB, Git, Jenkins, Maven, Azure DevOps, Pivotal Cloud Foundry (PCF), Docker, Visual Studio, Cucumber BDD, JUnit, Mockito, Postman, SoapUI, Power BI, JSON/XML, Agile/Scrum, Confluence, Jira.

IT Premia Group | Java Developer | India

Jan 2020 – June 2021

Description:

As a Java Developer at IT Premia Group, I contributed to building and improving core insurance applications for policy issuance, renewals, claims processing, and customer servicing. I developed backend modules, modernized UI components, automated workflows, and improved data handling to support efficient and reliable insurance operations.

Responsibilities:

- Developed backend modules using Java, Spring MVC, and Spring Boot to support insurance workflows such as policy creation, premium calculations, renewals, and claim submissions.
- Configured Hibernate/JPA entities for efficient ORM mapping of policy, customer, and claims data across Oracle and PostgreSQL databases.
- Built RESTful APIs with Spring Boot to integrate policy servicing, payment updates, and customer data management with internal insurance systems.
- Created responsive UI components using AngularJS, Angular 4+, JavaScript, HTML5, Bootstrap, CSS3, and jQuery for agent portals and insurance dashboards.
- Contributed to internal tool development using C#, ASP.NET MVC, and Web API for managing user roles, reporting, and operations dashboards.
- Designed backend utility functions in C# to automate manual insurance workflows such as policy lookups, premium validation, and claims data preparation.
- Implemented LINQ + Entity Framework for retrieving and transforming structured data used across policy and claims modules.
- Maintained cross-platform integrations between C#/.NET services and Java-based Spring Boot modules.
- Developed JSP- and Servlets-based web pages for customer records, policy lookups, and internal data management workflows.
- Wrote optimized SQL, PL/SQL, and PostgreSQL queries, stored procedures, triggers, and functions for insurance data transactions.
- Monitored and tuned Oracle DB performance using Oracle Enterprise Manager to maintain fast and reliable policy and claims operations.

- Implemented Kafka producers and consumers to process real-time insurance events such as policy updates, renewal notifications, claim status changes, and audit logs.
- Used Kafka topics to enable asynchronous communication between underwriting services, payment engines, and customer servicing modules.
- Designed and executed Cucumber BDD test suites, writing feature files and step definitions to validate policy rules, claims logic, premium calculations, and API workflows.
- Integrated Cucumber, JUnit, and Mockito to automate testing of microservices and ensure end-to-end functionality across insurance systems.
- Deployed Spring Boot microservices using Docker and Kubernetes for scaling, clustering, and load balancing across QA and production environments.
- Built CI/CD pipelines with Jenkins, Maven, Git, and Azure DevOps to automate builds, tests, and deployments across all stages (Dev, QA, UAT, Prod).
- Implemented client-side validations using JavaScript and AngularJS to reduce form errors and increase accuracy during policy data entry.
- Used ActiveMQ for internal asynchronous communication between policy, billing, and claims components.
- Utilized core Java (Collections, Multithreading, Exception Handling) to build robust and high-performance insurance workflows.
- Participated in Agile ceremonies, communicating with QA, BA, and product teams to refine requirements and deliver quality insurance features.

Environment: Java 8/11, C#, ASP.NET MVC, ASP.NET Web API, Entity Framework, LINQ, Spring Boot, Spring MVC, Spring Security, Spring JDBC, REST APIs, Microservices, AngularJS, Angular 4+, JavaScript, HTML5, CSS3, Bootstrap, JSP, Servlets, Hibernate/JPA, Kafka, ActiveMQ, PostgreSQL, Oracle, PL/SQL, SQL Server, MongoDB, Docker, Kubernetes, Jenkins, Maven, Git, Azure DevOps, Visual Studio, Cucumber BDD, JUnit, Mockito, Postman, SoapUI, JSON/XML, Linux/Unix, Agile/Scrum, Jira, Confluence.

EDUCATION

- **Master of Science in Computer Science** from University of South Dakota, Vermillion, South Dakota. **Aug 2022 - Dec 2023**
- **Completed Coursework:** Java, Python, DevOps, Distributed Systems, Computer Vision, Artificial Intelligence, Operating Systems, Pattern Recognition & Machine Learning, Quantum Computing, Info Storage & Retrieval, Oracle Database Management, Oracle Cloud Infrastructure (OCI), Oracle PL/SQL Programming, Power BI Data Visualization, Power BI Dashboard Design.
- **Bachelor of Technology in Computer Science and Engineering** from Presidency University, Bangalore, India. **Aug 2017 - June 2021**

CERTIFICATIONS

- Certified Object-Oriented Programming with Java.
- Certified Java Programming: Arrays, Lists, and Structured Data.
- Certified AWS Certified Solution Architect-Associate.
- MTA: Introduction to Programming Using HTML and CSS - Microsoft
- Certified Java Developer - W3 Schools

ACADEMIC & PERSONAL PROJECTS

- **SocialBook** – Developed a responsive social media web page using HTML, CSS, and JavaScript. Focused on layout, styling, and interactivity.
- **Apple iTunes Replica** – Built a music library replica interface using HTML & CSS to practice responsive UI design.
- **Node Farm Project** – Created a simple Node.js web server that serves product pages dynamically using JSON data.
- **COVID-19 Detection IoT Project** – Designed an IoT-based health monitoring system that collected and displayed sensor data in real-time.

CONTENT CREATION & ACHIEVEMENTS

- YouTube Content Creator** – YouTube Channel with 330 K+ Subscribers **(2018 – Present)**
- Created and managed engaging digital content, building an international audience of over 330K subscribers and 100M+views.
 - Handled all aspects of production — scripting, recording, editing, SEO, analytics, and branding.
 - Demonstrated communication, consistency, and time-management skills through regular publishing and community engagement.
 - Gained hands-on experience with YouTube Studio, Google Analytics, and social-media growth strategies.