

# Sath Jasti

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## Summary

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- Full-Stack Java Developer with over 6 years of experience building enterprise-grade applications. Proven ability to drive business outcomes by integrating AI/ML models for predictive analytics, real-time decision-making, and enhanced user insights.
- Expertise in Core Java and implementing advanced concepts like Multithreading, Exception Handling, Generics, Collections, and Java 17 features for scalable application development.
- Experience in building responsive, scalable web applications using Spring ecosystem including Spring Boot, Spring MVC, Spring Security, Spring Data JPA, and microservices architecture.
- Proficient in developing modern user interfaces using React.js, Redux, HTML5, CSS3, JavaScript ES6+, and responsive design frameworks for enhanced user experience.
- Hands-on experience with AI/ML model integration including supervised learning algorithms, model deployment on cloud platforms, real-time prediction systems, and AI-driven feature development.
- Extensive experience with AWS cloud services including EC2, S3, RDS, Lambda, SageMaker, CloudWatch, and serverless architectures for scalable application deployment.
- Working experience with both SQL (Oracle Database, MySQL) and NoSQL (MongoDB, DynamoDB) databases for optimal data storage solutions.
- Experience in real-time data processing and streaming using Apache Kafka, Redis caching, and event-driven architectures for enterprise messaging systems.
- Proficient in RESTful APIs development, microservices architecture, and comprehensive API documentation using Swagger/OpenAPI specifications.
- Strong experience with DevOps practices including CI/CD pipelines, Docker containerization, and automated testing frameworks.

## Technical Skills

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**Programming Languages:** Java (8, 11, 17), Python, HTML5, CSS3, JavaScript ES6+, SQL

**Framework & Libraries:** Spring Boot (2.x, 3.x), Spring MVC, Spring Security, Spring Data JPA, Hibernate, React.js, Redux, Node.js, jQuery, Bootstrap, Material-UI

**AI/ML Technologies:** Machine Learning, Supervised Learning, XGBoost, Random Forest, Linear Regression, Decision Trees, Model Evaluation, Feature Engineering, AI Model Integration, TensorFlow, Scikit-learn, Predictive Analytics, Real-time ML Systems

**Web Technologies:** RESTful APIs, Microservices, GraphQL, WebSockets, Servlets, JDBC, Swagger/OpenAPI, JSON, XML, OAuth 2.0

**Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, SageMaker, CloudWatch, SES, SNS, SQS, API Gateway), Docker, Jenkins, CI/CD, Kubernetes

**Tools & Platforms:** IntelliJ IDEA, VS Code, GIT, JIRA, Postman, Apache Kafka, JUnit, Mockito, Maven

**Databases:** Oracle Database, MySQL, MongoDB, DynamoDB, Redis, Database Design, Query Optimization

## Professional Experience

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**Software Developer**, MICOR Industries, Melbourne, FL

Jul 2024 - Present

Schema is an advanced manufacturing execution system that revolutionizes production control and scheduling for industrial clients. The platform leverages AI-powered prescriptive analytics to optimize manufacturing workflows, predict equipment maintenance needs, and automate production scheduling decisions. Serving manufacturing managers and production teams, Schema addresses critical challenges in production efficiency, resource allocation, and operational cost management through intelligent automation and real-time analytics.

- Collaborated with cross-functional teams in complete Software Development Life Cycle including analysis, design, development, coding, testing, deployment and maintenance using Agile methodologies.

- Optimized business logic performance by implementing Core Java concepts like multithreading, Concurrency, Exception Handling, File handling, and Java collections based on code review feedback.
- Delivered scalable web applications using Spring framework implementing Spring MVC, Spring Security, IOC (dependency injection), Spring Boot and Spring AOP for enterprise-grade solutions.
- Enhanced user experience by building responsive and interactive front-end components using React.js with Redux for state management, implementing custom hooks, Context API, and modern JavaScript ES6+ features.
- Engineered intelligent production scheduling module using Java Spring Boot and integrated XGBoost and Random Forest algorithms for predictive analytics, reducing production scheduling conflicts and improving manufacturing efficiency.
- Accelerated model deployment and training efficiency by managing AI/ML models on AWS SageMaker with automated model training pipelines, implementing A/B testing for model performance evaluation and continuous improvement.
- Improved code architecture by maintaining Interface compatibility utilizing Java 17 features like Lambda expressions, Stream API, Optional, and functional programming paradigms.
- Streamlined database interactions by implementing Hibernate utility classes, session factory methods, and JPA annotations for efficient operations with Oracle Database and integrated MongoDB for document storage and real-time analytics.
- Enhanced system performance by contributing to event-driven architecture implementation using Apache Kafka for real-time data streaming, implementing Redis caching for improved application response times.
- Maintained clean code structure by applying various Design Patterns including MVC, DTO, DAO, Singleton, Factory, and Observer patterns for maintainable architecture.
- Secured API access by developing RESTful web services and GraphQL APIs using Spring Boot with comprehensive Swagger documentation, implementing OAuth 2.0 for authentication and authorization.
- Achieved scalable deployment by architecting applications on AWS using EC2, ECS, RDS, S3 for file storage, Lambda for serverless functions, CloudWatch for monitoring, and SNS/SQS for messaging services.
- Optimized data processing efficiency by designing and optimizing database schemas in Oracle Database and MongoDB, implementing complex SQL queries, stored procedures, triggers, and NoSQL aggregation pipelines.
- Ensured consistent deployment by implementing CI/CD pipelines using Jenkins and AWS CodePipeline, containerizing applications using Docker across environments.

**Environment:** Java 17, Spring Boot 3.x, Spring MVC, Spring Security, Spring AOP, React.js, Redux, JavaScript ES6+, HTML5, CSS3, Hibernate, JPA, Kafka, Redis, Microservices, RESTful APIs, GraphQL, Swagger, Machine Learning, XGBoost, AWS (S3, EC2, ECS, RDS, SageMaker, Lambda, CloudWatch, SNS, SQS), Oracle Database, MongoDB, Docker, Jenkins, GIT, JIRA

**Software Developer**, Insurance Group of Florida, Inc, Melbourne, FL

Aug 2023 - Jul 2024

EZLynx represents a comprehensive insurance agency management platform designed to modernize traditional insurance operations. The system integrates AI-enhanced customer insights, automated policy processing, and intelligent risk assessment capabilities to serve insurance agents, brokers, and agency managers. The platform addresses critical industry challenges including customer retention, risk evaluation accuracy, and operational efficiency through advanced analytics and streamlined workflows.

- Participated actively in Daily Scrum meetings, Sprint planning and user story estimation following Agile methodology with cross-functional team collaboration and stakeholder feedback incorporation.
- Accelerated processing efficiency by developing application features using Core Java concepts including Collections, Exception Handling, Multithreading, Generics, and implementing Java 8+ features through iterative development cycles.
- Delivered enterprise insurance solutions by building responsive web applications using Spring framework features like Spring MVC, Spring ORM, Spring Boot, Spring Security, and Spring AOP.
- Improved user engagement by creating dynamic user interfaces using React.js with hooks, Context API, and Redux for state management, implementing responsive design using CSS3, HTML5, and Material-UI components.

- Developed AI-powered customer retention system using Python scikit-learn for behavioral analysis and churn prediction models deployed on AWS SageMaker, resulting in measurable improvement in customer retention rates.
- Provided actionable insights by implementing a real-time analytics dashboard using React.js and D3.js for data visualization, integrated with AI-powered risk assessment algorithms for insurance underwriting.
- Optimized data persistence by developing persistence layer using DAO design pattern with Hibernate ORM/JPA implementation, integrated MongoDB for storing unstructured customer data and analytics.
- Maintained scalable architecture by applying design patterns including Singleton, Prototype, Builder, and Factory for maintainable code structure and implementing caching strategies using Redis.
- Improved service orchestration by contributing to Microservices architecture using Spring Boot with RESTful API design, implementing API Gateway and comprehensive Swagger documentation.
- Achieved reliable deployment by deploying applications on AWS using EC2 instances, RDS for relational data, S3 for document storage, Lambda for serverless processing, and CloudWatch for application monitoring.
- Enhanced data processing capabilities by implementing stored procedures and database views in MySQL for reporting, integrating DynamoDB for real-time customer interaction tracking.
- Ensured code quality by using GIT repository for version control and software configuration management with branching strategies and code review processes.

**Environment:** Java 8+, Spring Boot 2.x, Spring MVC, Spring ORM, Spring AOP, Spring Security, React.js, Redux, JavaScript ES6+, HTML5, CSS3, Material-UI, Hibernate, JPA, Microservices, RESTful APIs, Swagger, Machine Learning, Python, AWS (EC2, RDS, S3, Lambda, SageMaker, CloudWatch), MySQL, MongoDB, DynamoDB, Redis, Docker, GIT, JIRA

**Software Developer**, Apollo Hospitals, Hyderabad

Aug 2021 - Jul 2023

Integrated Hospital Management System for Super Specialty Hospital with AI-driven diagnostic support and patient care optimization across Administration, Patient Care System, Health Services and Auxiliary Services modules.

- Followed Agile methodology and participated in SCRUM meetings for requirement tracking and bi-weekly sprint deliveries with stakeholder collaboration and technical mentorship.
- Developed business logic using Core Java APIs including Collections, Multithreading, Exception Handling, Generics, and implemented Java 8+ features for healthcare data processing through peer programming and code reviews.
- Built application components using Spring framework with Spring Dependency Injection, Spring Transaction, Spring Data, Spring AOP, and Spring Security for secure healthcare applications.
- Designed and developed responsive UI components using React.js, implemented state management with Redux, created reusable components with modern JavaScript ES6+ and CSS3 for user-friendly healthcare interfaces.
- Implemented AI-driven diagnostic support system using Python TensorFlow for patient data analysis, symptom prediction, and treatment recommendation algorithms, enhancing diagnostic accuracy and streamlining physician decision-making processes.
- Deployed ML models on AWS SageMaker for real-time patient risk assessment, implemented automated alerts using SNS and stored prediction results in DynamoDB for quick access.
- Configured application services and beans using Spring IOC and created Hibernate mapping files for database schema generation with Oracle Database and integrated MongoDB for storing patient documents and medical imaging metadata.
- Implemented standard J2EE design patterns including MVC, Strategy, Builder, and Singleton patterns for maintainable healthcare application architecture.
- Developed RESTful web service clients for third-party system integration including lab systems, pharmacy, and insurance providers with proper API documentation.
- Implemented caching strategies using Redis for frequently accessed patient data and medical records, significantly improving application response times for patient data access.
- Deployed applications on AWS using EC2 for compute resources, RDS for patient data storage, S3 for medical document storage, and Lambda for automated report generation.

- Used Hibernate in data access layer for efficient database operations with Oracle Database and implemented Log4j API for comprehensive logging including HIPAA-compliant audit trails.

**Environment:** Java 8+, Spring DI, Spring Transactions, Spring Data, Spring AOP, Spring MVC, Spring Security, React.js, Redux, JavaScript ES6+, HTML5, CSS3, Hibernate, JPA, RESTful APIs, Machine Learning, Python, TensorFlow, AWS (EC2, RDS, S3, Lambda, SageMaker, SNS), Oracle Database, MongoDB, DynamoDB, Redis, Log4J, JIRA, GIT

**Software Developer**, The New India Assurance Company Limited, Hyderabad

Jun 2019 - Aug 2021

AdInsure is an online insurance platform with intelligent analytics and automated processing capabilities for both personal and commercial insurance lines.

- Followed Agile methodologies for iterative development and used continuous integration tools for deployment with automated testing frameworks and team-based code reviews.
- Implemented Core Java concepts including Multithreading and Concurrency for performance optimization and developed multi-threaded insurance processing systems with senior developer guidance.
- Developed business logic using Spring framework with Spring AOP and MVC for transaction handling and implemented Spring Security for user authentication and authorization.
- Created responsive user interface components using React.js with component lifecycle management, implemented state management and modern JavaScript ES6+ features for improved user experience.
- Engineered intelligent underwriting automation system using machine learning algorithms for risk assessment and customer segmentation, implementing automated decision-making processes that significantly reduced underwriting processing time while maintaining accuracy.
- Deployed ML models on AWS infrastructure using EC2 and RDS, implemented real-time fraud detection using anomaly detection algorithms and stored results in DynamoDB.
- Configured Entity Beans using Hibernate JPA implementation with annotations for database transaction management, integrated MongoDB for storing policy documents and customer interactions.
- Applied architectural patterns including MVC, DAO, Value Object and Singleton patterns for scalable insurance application development.
- Developed RESTful Web Services using Spring RESTful APIs for JSON data exchange between frontend and backend, implemented caching using Redis for frequently accessed policy data.
- Implemented database operations using PL/SQL for data extraction, manipulation and reporting on Oracle Database, created automated reporting systems using AWS Lambda.
- Used AWS services including S3 for document storage, CloudWatch for application monitoring, and SNS for policy renewal notifications.

**Environment:** Java 8, Spring MVC, Spring AOP, Spring Security, React.js, JavaScript ES6+, HTML5, CSS3, Hibernate, JPA, RESTful APIs, Predictive Analytics, Machine Learning, AWS (EC2, RDS, S3, Lambda, CloudWatch, SNS), Oracle Database, MongoDB, DynamoDB, Redis, JIRA, GIT

## Education

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### Master of Computer Information Systems

Florida Institute of Technology, Melbourne, FL

### Bachelor of Technology in Artificial Intelligence

Vidya Jyothi Institute of Technology, India