Mani Harsha Masina

(314) 474-7299 | maniharshamasina@gmail.com | LinkedIn | Portfolio

Summary

Full Stack Developer with 3+ years of experience in designing and developing robust web applications using Java, Spring Boot, React.js and RESTful APIs. Adept at building scalable backend services, dynamic frontend components and integrating databases like MySQL and PostgreSQL. Skilled in Docker, AWS and Git for streamlined deployment and version control within agile environments. Proven ability to collaborate across teams and deliver secure, efficient, and user-focused solutions.

Technical Skills

Programming Languages: Java, Python, JavaScript (ES6+)
Frontend Technologies: React.js, Next.js, Vite, HTML5, CSS3, Bootstrap, TailwindCSS, Jinja Templates
Backend Frameworks: Spring Boot, Spring MVC, Spring Batch, Spring Security, Flask, Node.js, Express.js
Databases & Storage: MySQL, PostgreSQL, MongoDB, Firebase (Authentication), Amazon S3 (Storage), Spring Data JPA
API & Web Services: RESTful API Design, Swagger UI, Postman, Axios, Apache Kafka, WebClient, HttpClient, Redux, Context API
DevOps & Deployment: Docker, AWS (VPC, EC2, IAM, SNS, RDS, Route 53, EBS, Lambda, ECR Fargate), Nginx, Gunicorn, Maven, Git, GitHub
Testing & Validation: Postman (API Testing), Cypress, Selenium, PDFBox (Document Validation), APScheduler
Tools & Workflow: IntelliJ IDEA, Visual Studio Code, Jira, Agile/Scrum, Terminal, Excel, Power BI

Experience

CGI Inc., USA | Full Stack Developer   Feb 2025 – present

- Developed and deployed RESTful APIs using Java (Spring Boot) and MySQL to support claim submission, retrieval, and update processes, implementing robust access control and user authentication.
- Designed and implemented microservices architecture for claim management, separating modules like Claim Submission Service, Claim Status Service, and Notification Service, ensuring scalability and ease of maintenance.
- Integrated Spring Security with JWT-based authentication and role-based authorization to secure APIs and protect sensitive user data.
- Built dynamic, responsive frontend interfaces using React.js, creating role-based dashboards for customers and insurance agents to enhance usability and user navigation.
- Containerized microservices and MySQL databases using Docker and Docker Compose, ensuring consistent development-to-deployment workflows across teams and environments.
- Engineered claim status tracking modules with advanced filtering and sorting features, and implemented secure file upload functionality for claim documentation.
- Optimized backend performance by refining Spring Data JPA queries and service layer architecture, resulting in improved API response times and application efficiency.
- Conducted end-to-end API testing using Postman and maintained interactive API documentation with Swagger, streamlining quality assurance and cross-functional collaboration.

Cellix Bio Pvt Ltd, India | Full Stack Developer   Jan 2023 – Aug 2023

- Built and deployed a MERN stack (MongoDB, Express, React, Node.js) web application to manage over 250 patent families across 14 countries, streamlining global IP compliance and legal operations.
- Developed RESTful APIs in Node.js for patent data handling, integrated with MongoDB for high-performance data retrieval and scalability.
- Implemented Firebase Authentication with role-based access to secure sensitive legal data for admin, research, and legal teams.
- Created a centralized notification system using Node schedulers and AWS SES to automate reminders for 650+ patent annuity deadlines.
- Designed a robust advanced search and multi-filter system to simplify data navigation for legal teams, reducing retrieval time by 70%.
- Deployed the application on AWS EC2, integrated AWS S3 for storing 11,500+ patent-related images, and utilized Route 53 for DNS routing and uptime reliability.
- Set up monitoring using AWS CloudWatch to track performance metrics, error logs, and user behavior, enabling continuous optimization.
- Achieved 100% SEO score through best practices in frontend React optimization and metadata integration, significantly improving user engagement and discoverability.

ValueLabs, India | Software Developer   Mar 2021 – Dec 2022

- Designed and deployed RESTful microservices using Node.js (Express) and Java (Spring Boot) to manage secure customer data and healthcare claim submissions, enhancing backend performance and reliability.
- Integrated MySQL and PostgreSQL databases with Spring Data JPA and React.js, supporting dynamic filters and optimized query performance through indexing strategies.
- Built real-time, event-driven services using Apache Kafka to process customer orders, support tickets, and automate claim status updates, improving system responsiveness and user engagement.
- Automated document validation workflows using Node.js, PDFBox, and custom parsers, reducing manual insurance document checks and increasing operational accuracy.
- Implemented business rule logic using Drools and integrated external APIs for sending status-based email and SMS alerts, enhancing customer communication efficiency.
- Contributed to the full development lifecycle using Git for version control, Postman for API testing, Swagger for documentation, and Maven/NPM for dependency and build management.

Education

Masters in Information Technology   **Aug 2023 – May 2025**
Missouri University of Science and Technology, Rolla, Missouri

Bachelors in Electronics and Communication Engineering   **Jul 2018 – May 2022**
The LNM Institute of information and Technology | Rajasthan, Jaipur

Certifications

- AWS Certified Developer – Associate
- Business Analytics Certification
- Data Science Certification

Projects

Express Shuttle Services (Client and Admin)

- Designed and developed a responsive single-page web application for shuttle booking and management, integrating Firebase Email and OTP-based authentication for secure user access and admin control.
- Built robust booking and payment modules with PayPal API integration, achieving a 97% transaction success rate and improving ticket booking efficiency by 96%.
- Engineered an intuitive admin dashboard to manage routes, revenue, seat availability, and bookings; optimized mobile performance by reducing page load times by 60% and implemented advanced search filters for user-friendly ride lookups by Ticket ID, Payment ID, or contact info.

Snaptube

- Engineered a dynamic video streaming platform replicating core YouTube features, supporting over 50,000 real-time video streams with seamless performance and Google Sign-In for secure access.
- Implemented advanced filtering and categorization for 10+ video genres, improving user search accuracy and video discoverability by 25%.
- Developed live analytics dashboards for tracking video interactions (views, comments, likes) and channel metrics (subscribers, view count) using WebSockets and Firebase Realtime Database.