

# Sandeep Mannam

## Software Engineer

**Phone:** +1 682-272-8031 | **Email:** sandeep.m@mycvhire.com | **Location:** Maryville, Missouri

### SUMMARY

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- Software Engineer with 3 years of experience, proficient in developing both frontend and backend applications. Expertise in solving real-world problems using cloud-based solutions.
- Proficient in developing full-stack applications using MERN (MongoDB, Express.js, React.JS, Node.JS) stack technologies to increase user engagement and improve website speed.
- Experienced in designing and deploying scalable cloud-based web applications on AWS platforms, leveraging cloud services to optimize application performance and reliability.
- Managing multi-container application environment with Docker Compose, streamlining development and deployment workflows.
- Expertise in automating software builds, tests, and deployments using Jenkins for a streamlined CI/CD pipeline.

### EDUCATION

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**Master of Science in Applied Computer Science** | Northwest Missouri State University, MO

### WORK EXPERIENCE

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#### Assurant, MO

**Jan 2024 – Present**

#### Software Engineer

- Built multiple complex UI components using React, improving user engagement through faster load times and intuitive interactions.
- Designed and developed APIs leveraging microservice architecture, utilizing Spring Boot for efficient development and JMS for asynchronous communication with ActiveMQ as the message broker.
- Integrated Spring Data JPA with MySQL and PostgreSQL to streamline data access within the Spring Boot application, reducing development time for the data access layer by 10%.
- Secured APIs using OAuth 2.0 with authorization code grant type for authentication and fine-grained role-based access control (RBAC) with granular permissions for authorization to protect sensitive user data.
- Performed CRUD operations like Updating, Inserting, and Deleting data in MongoDB and SQL Server and handling database access and data transmission based on RESTful web service.

#### Kpit Technologies, India

**July 2020 – Nov 2022**

#### Software Engineer

- Implemented search functionality using Elasticsearch with various searchable fields, including autocomplete, fuzzy search, and stemming, achieving a 92% search accuracy rate and reducing search query latency by 30%.
- Managed state management for various components using Redux, enhancing application scalability through improved data flow and predictable state updates.
- Applied middleware functions in Express.js to enhance application functionality and security, such as authentication and authorization.
- Troubleshooted and resolved complex GraphQL queries, ensuring accurate data delivery to clients and improving overall REST API performance.
- Designed and configured a robust CI/CD pipeline using AWS CodePipeline with different stages for building, testing, and deployment, ensuring consistent and reliable software releases.
- Accomplished asynchronous programming using Node.js's Async/Await syntax to improve application responsiveness by 35% and handle a 2x increase in concurrent users without performance degradation.
- Optimized Node.js application performance by 25% through profiling with Node.js built-in profiler and code refactoring, focusing on reducing CPU usage and minimizing garbage collection.

### TECHNICAL SKILLS

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- **Methodologies:** SDLC, Agile, Waterfall
- **Languages:** Java, Python, JavaScript, SQL
- **Frameworks/Libraries:** Spring Boot, Spring MVC, MERN (MongoDB, Express.js, React.JS, Node.JS), OAuth 2.0
- **J2EE Technologies:** Servlets, JSP, JPA, JSTL, JavaBeans, JDBC, Microservices
- **Web Technologies:** HTML5, CSS3, JavaScript, Bootstrap5, jQuery, Ajax, JSON, XML, Redux, Elastic search, REST APIs
- **Cloud:** AWS (EC2, SQS, SNS, Elastic Beanstalk, Code Deploy, CloudWatch)
- **Database:** MySQL, PostgreSQL, Neo4j
- **Tools:** Maven, Gradle, Git, Jenkins, GraphQL, Docker, Kubernetes, Postman, Mockito, Swagger UI