

# SANDEEP MANNAM

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## PROFILE SUMMARY

Dynamic Software Engineer with 3+ years of experience in full-stack development, adept at transforming business challenges into innovative, scalable solutions. Proficient in leveraging Java, Python, AngularJs, React, Node.js, and various Spring modules to design and implement high-performance applications. Skilled in deploying microservices architectures and utilizing cloud technologies (AWS, Azure) to enhance operational efficiency. Committed to Fast-Paced continuous learning, Networking and collaboration, with a strong focus on delivering impactful technology solutions.

## TECHNICAL SKILLS

- **Programming Language:** Java, Python, JavaScript, C, C++
- **Methodologies:** Software Development Life Cycle(SDLC), Agile Software Development, Waterfall, Jira
- **Frameworks/Libraries:** Springboot, Spring MVC, Mockito, Hibernate, Microservices, Spring Security, Spring batch, React.js, Node.js, Express.js, Angular, Rest API, JPA, JavaBeans EJB, JDBC, JEE, TensorFlow, SonarQube, Spring Data, Spring WEB, Docker, Splunk
- **Databases:** MongoDB, MySQL, NoSQL, MSSQL
- **Cloud Computing:** GCP, AWS(EC2, Lambda, Elastic Beanstalk)
- **Testing Frameworks / Debugging:** JUnit, Jasmine, Jest, Unit and Integration Testing, Automated Testing
- **Build Tools:** MS Visio, Maven, Gradle, JUnit, Jenkins
- **Web Technologies:** jQuery, CSS, HTML, JavaScript, JSP, Bootstrap, TypeScript, GraphQL, SQL Server
- **Web Development:** HTML, CSS, JavaScript, Bootstrap, TypeScript, Next.js, jQuery, Ajax, JSON, XML, Weblogic
- **Messaging Services:** Amazon SQS, Kafka, RabbitMQ
- **Version Control:** GitHub, Git, Gitbucket
- **IDEs:** IntelliJ, Eclipse, Visual Studio Code
- **Development Methodologies:** Agile, Waterfall, JDLC
- **Application Servers:** Apache Tomcat, AWS, Azure, Apache Tomcat
- **Big Data and DevOps:** Spark, Data Mining, Query Language, Continuous Integration/Continuous Deployment
- **Operating Systems/Compiler:** Windows, macOS/iOS, Linux
- **Technical Documentation:** Business requirements documentation, Status reports, Process flows
- **Professional Skills:** Presentations, Teamwork, Technical Documentation and Requirements Gathering, Oral and Written Communication Skills, Problem Solving Skills

## WORK EXPERIENCE

### Software Engineer | Principal Financial, VA

January 2024 – Present

- Engineered and crafted dynamic, responsive webpages utilizing Front End technologies HTML5, CSS3, Tailwind CSS, Bootstrap, JavaScript, and TypeScript with React/Redux End-to-End. Leveraged Webpack for module bundling and optimization, reducing page load times by up to 30% and streamlining dependency management.
- Designed and implemented state management solutions (Redux, Context API) to streamline application performance and reduce complexity, and Led UI engineering initiatives to create intuitive and responsive interface, significantly enhancing user experience and engagement across web applications.
- Engineered a microservices Architecture using Spring Boot, achieving a 25% performance improvement while enhancing maintainability and scalability of applications.
- Built and optimized GraphQL APIs, significantly improving client-side performance by 25% and enabling flexible data retrieval.
- Automated deployment processes using AWS EKS and CI/CD tools (Jenkins), leading to a reduction in deployment time and increased delivery efficiency.
- Optimized microservice communication efficiency by 30% through well-structured RESTful APIs using Spring MVC and Spring WebFlux, enabling faster data exchange and reduced latency.
- Utilized RabbitMQ for asynchronous message processing, enhancing application responsiveness and improving inter-service communication efficiency by 30%.
- Conducted data analysis and Monitoring metrics to assess product performance, implementing quality assurance processes and Code Review that improved overall software reliability and user satisfaction.
- Developed SPAs using AngularJS, leveraging two-way data binding, custom directives, and modular architecture to enhance performance, maintainability, and user experience..
- Collaborative with cross-functional teams in information technology to design and enhance user interfaces, driving continuous improvement in application usability and performance..

### Software Engineer- II | Kpit Technologies, India

January 2021 – November 2022

- Enhanced application performance through the implementation of efficient data fetching techniques using React Hooks and APIs, resulting in a 30% reduction in data access time.
- Managed Postman to design and execute API requests, facilitating thorough testing of the application's backend.
- Developed robust RESTful APIs using Spring MVC, increasing API request throughput by 20%, which directly contributed to better client experiences.
- Drove the adoption of CI/CD pipelines using AWS services, accelerating application delivery by 40% and improving overall software quality, and Developed WebSphere interfaces, reducing data processing time by 20%.
- Utilized analytical skills to identify performance bottlenecks in applications, implementing solutions that enhanced efficiency and user experience.

- Developed and optimized distributed storage solutions to enhance data retrieval efficiency, enabling rapid query processing and improved application performance.
- Drove the design and implementation of scalable, distributed systems using object-oriented Micro-Services design principles and efficient algorithm design, enhancing application performance by 30% and improving operational safety.
- Applied problem solving techniques to streamline development processes, ensuring timely ship of high-quality software that meets Stakeholders expectations.
- Writing comprehensive documentation and integration test Sprint plans to facilitate smooth project shipping, Execution and enhance Collaborate among cross-functional teams.
- Utilized Container with Kubernetes and NodeJs in enterprise software, leveraging PostgreSQL and Redis for data management while implementing TDD with Cucumber and Selenium for automated testing and root cause analysis.

## **Software Engineer- I**

**July 2020 – December 2020**

- Accomplished Progressive web applications using HTML, CSS, JavaScript, React and Redux, Handled Server as well as Client-Side Rendering in ReactJS to Communicate.
- Skilled in designing and implementing RESTful and SOAP web services, ensuring seamless integration with front-end applications and third-party services.
- Designed scalable solutions using JBoss and Play, reducing costs by 15%, Increased productivity by 25% through active participation in sprints.
- Developed Progressive Web Applications (PWAs) using React and Redux, managing both server and client-side rendering to enhance user experience.
- Participated in Agile development processes, including Scrum and Kanban, fostering collaboration and iterative improvements in project delivery and software quality.
- Accomplished the security on microservices by using Spring Boot Auth server, which generated JWT tokens as OAUTH2 Authentication, Authorisation and Validation.
- Experienced Micro Strategy applications to diversify project offerings and enhance team growth.
- Established RESTful APIs with Express.js, promoting seamless integration and interoperability across frontend and backend services.
- Implemented site reliability engineering (SRE) practices to enhance uptime and address user feedback by Containerization, leveraging Google Cloud tools to proactively identify and Validate the Requirements Analysis and resolve issues, ensuring optimal system performance.

## **EDUCATION**

**Northwest Missouri State University, MO**  
Masters in Computer Science – 4.0/4.0 GPA

**January 2023 – April 2024**

**Gandhi Institute of Technology and management, India**  
Bachelors in Electronics and communication engineering – 3.8/4.0

**June 2017 – March 2021**

## **PROJECTS**

### **Price Bidding E-Commerce Application**

- Built an interactive platform using Java, Spring Boot, and Thymeleaf to enable users to customize apparel with unique colors, designs, and multimedia inputs.
- Demonstrated expertise in core Java, J2EE, and frameworks such as Spring and Hibernate, enabling the development of robust, scalable applications.
- Experienced in working with relational databases like MySQL and Oracle, utilizing SQL for efficient data retrieval, manipulation, and optimization of database performance.
- Developed an interactive e-commerce platform using Java and Spring Boot, integrating user customization features that improved user retention rates by enhancing the shopping experience.
- Implemented a basic secure payment processing with PayPal API, resulting in streamlined transactions and increased conversion rates.
- Engineered a robust backend system using Spring Security for user authentication and REST APIs for efficient data management.

## **ACHIEVEMENTS**

- Served as a Graduate Assistant for Data Structure and Algorithms and Design Patterns, providing mentorship on coding best practices for Object-Oriented Programming and Computer Architecture.
- Ranked 46th among 1500+ participants in a college coding competition Received silver badge in CodeChef for solving 250 java coding problems.
- Awarded a silver badge on CodeChef for solving over 250 Java coding challenges
- Appointed Vice Chairperson of the IEEE Signal Processing Society at university.
- Published research on Innovation software Implement on Customer Needs in the IJADST journal.
- Written a paper on Innovative Analytics of Stock price prediction using Real-Time data to display pricing and sales Strategy using Machine Learning and Deep Learning techniques in Customer Service Confluence approach.

## **CERTIFICATIONS**

- Earned AWS Certified Developer credential (Amazon Web Services).
- Completed IBM Python Full Stack Software Developer Professional Certificate – Coursera.
- Mastered Open Source Java Development with Java(OOP, Back End), JSP, Spring, Boot, JS, React – Udemy.
- Completed Effective Verbal Communication Skills (Teamwork, Leadership) – Udemy.
- Completed Software Development Lifecycle Boot camp– Udemy.