

# SANDEEP KOLAPINENI

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## OBJECTIVE

Skilled and results-oriented Software Engineer with over 6 Years of experience in Software Application Development and a practical understanding of several IT technologies with challenging assignments to amalgamate personal enrichment with professional goals.

## PROFESSIONAL SUMMARY:

- Expert in Agile methodologies like **SCRUM**, **Test Driven Development (TDD)**, **Agile Development &SDLC**.
- Expert in **Java 11& 8**, **Python 3. x**, **Spring Framework**, **Spring boot Microservices** and **Angular**.
- Experienced in implementing **Service Oriented Architecture** and Web Services using **REST**.
- Experience with **Java 8** Lambda, Streams, Pipelines, Filters, Optional, and **Executor Service** features.
- Strong understanding of **Java threads**, **concurrent utilities**, and **multi-threading concepts**, including thread synchronization, communication, and safety.
- Strong experience in **Spring Framework** modules such as **Spring MVC**, **IOC**, **AOP**, **JDBC**, **JTA**, **ORM**
- Well-versed in Netflix and Spring frameworks that complement microservices development, such as **Zuul**, **Eureka**, **Ribbon**, **Hystrix**, and **Feign**, to develop efficient, scalable, and reliable microservices-based applications.
- Experience with containerization technologies like **Docker** and container orchestration systems like **Kubernetes** for deploying and managing Microservices.
- Experience with message brokers such as **Apache Kafka** and **RabbitMQ** for event-driven communication between Microservices.
- Familiarity with cloud platforms like **AWS** and **Azure** Platform for deploying Microservices in a cloud environment.
- Experience with building and maintaining Continuous Integration/Continuous Deployment (**CI/CD**) pipelines using tools like **Jenkins**, **GitLab CI**, and **CircleCI** for automated building, testing, and deploying of Microservices.
- Expertise in implementing security measures like **OAuth 2.0** and **JSON Web Tokens (JWT)** for securing Microservices APIs and preventing unauthorized access.
- Hands-on experience using **HTML5**, **CSS** and **JSP** with a focus on **Cross-browser/Cross-platform compliance**.
- Good knowledge of **Angular 8** directives to create reusable elements and attributes and easy-to-test and maintain client-side interactivity in web applications.
- Experience with **Angular Material design** and its components to create responsive and visually appealing user interfaces.
- Experience in using **JavaScript** and **Typescript** with Angular and Bootstrap libraries.
- Experienced in Middleware persistence frameworks like **Hibernate/JPA** Entities for mapping Java classes using Hibernate Query Language (HQL), HSQL Named Queries, Criteria, and Projections.

- Proficient in designing and implementing high-performance, scalable relational databases using SQL-based technologies such as **DB2, Greenplum, MySQL and Teradata, PostgreSQL, and Oracle.**
- Skilled in optimizing SQL queries and database schema for improved performance and implementing database indexing, partitioning, and sharding strategies for scalability.
- Skilled in implementing **NoSQL** replication and sharding strategies to achieve high availability and scalability and expertise in designing and implementing scalable, distributed systems using **MongoDB** as a primary data store and incorporating caching solutions for improved performance.
- Experienced in utilizing **Pandas** and **NumPy** for data analysis to derive insights and make data-driven decisions.
- Proficient in building and maintaining **Apache Spark clusters**, leveraging its distributed computing capabilities to process large volumes of data in real time.
- Experienced with XML-related technologies such **XML, XSLT (DOM, SAX), XPATH** and **DTD.**
- Hands-on experience with building tools like **Maven and Gradle** and Logging tools like **Log4J2.**
- Worked on Speeding up Existing Applications with a Cache service using **Redis Cache and Gem Fire.**
- Experience with Code repositories like **GIT, big bucket and SVN**
- Experience testing with **JUnit Framework** using **Mockito** and **Easy Mock, Power Mockito, Spring Junit Runner, and JMeter.**

#### Technical Skills:

<b>Programming Languages</b>	Java 8 & 11, Python 3. X
<b>Frameworks</b>	Spring MVC, Hibernate, Angular 8, Spring Boot, flask.
<b>Application/Web servers</b>	Apache Tomcat, IBM WebSphere, Jetty, JBoss
<b>Databases</b>	Oracle DB, MySQL, DB2, Greenplum, MongoDB, PostgreSQL
<b>Internet Technologies</b>	HTML, JavaScript, CSS, jQuery
<b>IDE</b>	Eclipse, NetBeans, IntelliJ, Spring Tool Suite, Jupiter Notebook, PyCharm
<b>Operating system</b>	Windows, Linux, Unix, macOS
<b>Project Management</b>	JIRA, Bugzilla, Azure DevOps
<b>CI/CD</b>	Jenkins, Docker, Kubernetes, Ansible
<b>Cloud Technologies</b>	AWS, EC2, S3, Lambdas, Azure ML, Azure App Service, functions
<b>Version Controls</b>	GitHub, Git Lab, SVN, Big Bucket
<b>Build Tools</b>	Ant, Maven, Gradle
<b>Message queues</b>	IBM MQ, Kafka
<b>Machine Learning</b>	OpenCV, TensorFlow, Pandas, NumPy, LSTM, CNN

## ORGANISATIONAL EXPERIENCE:

### **Morgan Stanley, as *Senior Software Engineer***

**Jan 2022 to date.**

Morgan Stanley is a leading global financial services firm that provides a wide range of investment banking, securities, investment management, and wealth management services. Morgan Stanley is subject to FINRA regulations and works to ensure compliance with these regulations to maintain the integrity and stability of the financial industry. As a senior software engineer at Morgan Stanley, I worked on developing an application that sends blue sheet reports to FINRA, which are used for regulatory purposes.

#### **Responsibilities:**

- Collaborating with compliance and legal teams to develop and implement code changes related to FINRA and other regulatory requirements.
- Working with KPMG for internal audits to ensure FINRA guidelines and rules adherence.
- Developed microservices-based applications using Java Spring Boot, following microservices architecture patterns such as service registry, API gateway, and circuit breaker.
- Used reactive programming and Spring Web Flux to develop high-performance microservices that can handle large volumes of concurrent requests.
- Developed RESTful APIs using Spring Web MVC and used Spring Security to implement authentication and authorization.
- Deployed Docker containers to Azure App Services, ensuring they were configured correctly and scaled with Kubernetes to meet the application's needs. Used Gradle build system for compilation, testing, and packaging of Java applications and created custom Gradle tasks and plugins to automate the build process.
- Deployed Java applications and microservices on Docker containers and used Kubernetes for container orchestration.
- Batch processing with Apache Spark and used Spark's Data Frame and Dataset APIs for large-scale data processing and manipulation.
- Implemented unit and integration testing for microservices using JUnit, Mockito, and SonarQube for code quality analysis.
- Worked in an agile development environment, participated in daily stand-ups, sprint planning, and retrospectives, and used JIRA for issue tracking and project management.

**Environment:** JDK 1.11, Spring Boot, Spring Cloud, IntelliJ, PostgreSQL, HTML5, CSS3, PGAdmin, Big Bucket, Jira, Jenkins, Docker, Kubernetes, Kafka, Swagger, SonarQube, Elasticsearch, Netflix OSS stack, Greenplum, Apache spark, pandas, python, Azure, OpenShift

### **CGI Group, as *Senior Software Engineer***

**Dec'2019 to Dec 2021**

CGI Group is a Canadian multinational information technology consulting and systems integration company; CGI develops many products, mainly in the banking and finance domain; here, I had the opportunity to work on a product called Trade360, which is a trade finance platform used by several banks including CIBC, RBC, and Barclays.

#### **Responsibilities:**

- Working with Business Analyst to understand the requirements attached as part of **Jira Stories**
- Delivering the applications, spring boot services and doing required modifications as per the acceptance criteria

- Collaborated with team members to design, develop, and maintain microservices-based applications using the Spring Boot framework.
- Worked on implementing batch processing using the Spring Batch framework for efficient data processing.
- Utilized Jenkins for continuous integration and deployment of the application.
- Implemented Kubernetes for container orchestration and deployment of microservices.
- Worked on Angular-based front-end development to enhance the user interface of the Trade360 product.
- Collaborated with QA engineers to ensure code quality through unit, integration, and regression testing.
- Engaged in code review sessions with peers to ensure code quality and maintainability.
- Worked on integrating the Trade360 product with external APIs to facilitate data exchange.
- Utilized Git for version control and collaborated with the team using Agile methodology to ensure timely software delivery.
- Participated in knowledge-sharing sessions and provided training to new team members on technologies and tools used in the project.

**Environment:** JDK 8, Spring Boot, Angular 8, Spring Cloud, IntelliJ, Oracle SQL, HTML5, CSS3, GIT Lab, Jira, Jenkins, Docker, Kubernetes, Kafka, Swagger, SonarQube, Kibana, Netflix OSS stack, VS code

#### **Avantel Limited as *Application Software Developer***

**June'2017 to Dec'2019**

Avantel is a product development company focusing primarily on Satellite Communication, Network management and Software development for embedded systems. I worked on developing desktop and web applications for clients and improving the user experience and functionality of the company's ERP portals by incorporating new features and optimizing performance.

#### **Responsibilities:**

- Worked on developing service-oriented architecture applications for satellite communication products such as **Mobile Satellite Services (MSS)** and **Voice over Internet Protocol (VoIP)**.
- Collaborated with team members to design, develop, and maintain desktop applications for RF Tx Rx communication equipment.
- Worked on developing web applications for Avantel's company-wide Enterprise Resource Planning (ERP) system.
- Engaged in requirement gathering and analysis sessions with business stakeholders to understand and translate their needs into software requirements.
- The VOIP functionality of the communication products was implemented using a combination of Java and other technologies, such as SIP (Session Initiation Protocol) and RTP (Real-time Transport Protocol).
- Developed the front end was responsive and cross-browser compatible using HTML5, CSS3, and JavaScript frameworks such as Bootstrap and jQuery.
- Worked on the applications using Java Networking and Sockets to facilitate communication between different hardware components.

**Environment:** JDK 8, Spring MVC, Spring Security, NetBeans, HTML5, CSS3, JavaScript, SVN, Jira, Jenkins, J2EE, Elasticsearch, Java Swings, MySQL, Java Networking, Sockets, VOIP

#### **Academic Details:**

2017: bachelor's degree in Electronics and Communication from **GITAM UNIVERSITY**