

# SIVA INAMPUDI

Full Stack Developer

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## SUMMARY

Over 11+ years of experience in developing cross-platform applications and data analytics using Object-Oriented and Functional Programming. I have worked with Java, Python, JavaScript, TypeScript and J2EE technologies. I possess excellent programming, analytical, problem-solving, and interpersonal skills with keen understanding of business applications.

### Back End:

- Experienced in developing enterprise-grade Java applications using industry-standard frameworks such as Spring, Spring Boot and JPA.
- Have strong exposure and work experience on java concepts collection API, Stream API, Parallel Streams, exception handling, Multithreading, Hash Map, concurrency, JDBC, modularity, executor service, fork and join frameworks.
- Designed and developed J2EE MVC applications using Struts, Spring MVC and Spring Boot and strong experience on Restful APIs & SOAP web services. Strong understanding of Microservices patterns -Hystrix, Aggregator, Proxy chaining.
- Strong experience in Spring modules -Spring MVC, IOC, AOP, JDBC, JTA, IO, Spring Boot, Spring Microservices, Spring REST, Spring Eureka, Spring Ribbon, Spring.
- Hands on exposure to multiple Application Servers like BEA Web Logic Application Server, Apache Tomcat, WebSphere and Jboss.
- Created applications using Kafka, which monitors consumer lag within Apache Kafka clusters.

### Front End:

- I have experience in using web frameworks like Node.js to build applications. I have also leveraged other frameworks like jQuery, Bootstrap, React and Angular to create intuitive and responsive user interfaces for front-end applications. In addition, I am proficient in web technologies such as HTML, CSS, JavaScript, and TypeScript.
- My technical expertise lies in developing single-page applications (SPAs) using the Angular framework, leveraging my in-depth knowledge of Angular 2 and later versions.
- I am an expert in seamlessly integrating the front-end of an application with its back end, utilizing my technical skills in areas such as RESTful APIs, AJAX, and server-side scripting to create robust and efficient web applications.

### Data Engineering:

- I possess strong proficiency in Python programming, expertise in using popular libraries such as NumPy, Pandas, Matplotlib, and SciPy for data analysis and visualization.
- Additionally, I am proficient in using web development libraries such as CherryPy, Pyramid, and Flask, as well as testing libraries such as pytest and unittest.mock.
- Experience in database development and implementation using different RDBMS such as Microsoft SQL Server, ORACLE, MySQL, PostgreSQL and DB2 and NoSQL databases such as MongoDB, Cassandra.

### CI/CD:

- Through my experience in deploying code to different environments, I have developed strong technical skills in utilizing a variety of CI/CD tools, such as Jenkins, TeamCity, Travis CI, GitLab, GitHub Action, and Liquibase.
- Experience in using tools like Docker Compose, Kubernetes for Orchestrating and deploying services related to the container and with container-based deployments using docker, working with Docker images, Docker hub.

### **Cloud Agronomics:**

- Experienced in designing and deploying highly scalable and available systems on AWS with a variety of AWS services such as Amazon S3 for object storage, EC2 for compute resources, SQS and SNS for messaging, Lambda for serverless computing and EKS for Kubernetes cluster management.
- My experience includes working with various Azure services, such as Compute (Web Roles, Worker Roles), Azure Websites, caching, SQL Azure, NoSQL, Storage, Network Services, Azure Active Directory, API Management, and PowerShell Automation.
- Experienced in designing and deploying highly scalable and available systems on Google Cloud with a variety of Google Cloud services such as Compute Engine for compute resources, Cloud Storage for object storage, Cloud Pub/Sub for messaging, Cloud Functions for serverless computing, and Kubernetes Engine for cluster management. I have worked extensively with these services and have a deep understanding of their capabilities and limitations

## **WORK EXPERIENCE**

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Sr Software Engineer at  
**Bank of America**  
New York City, NY

**03.2023 - Present**

Bank of America's Global Corporate and Investment Banking (GCIB) provides integrated financial solutions, capital markets execution, and transformative advice to corporations, financial institutions, and government agencies. The GCIB team offers a range of services, including capital market solutions that help clients develop debt and equity plans specific to their needs.

### **Responsibilities:**

- As a senior Software engineer, I have designed and developed RESTful APIs using the OpenAPI Specification.
- I ensure optimal performance and usability by defining endpoints, methods, parameters, responses, and other details of the API.
- I am proficient in documenting APIs using Swagger, effectively communicating API specifications to development teams and stakeholders.
- Utilized AWS services, such as EC2, S3, Lambda, and API Gateway, to host, store, and manage the RESTful API and the frontend application, ensuring scalability, reliability, and security of the cloud infrastructure.
- I perform comprehensive testing of APIs using tools like Postman and Swagger UI to verify functionality and identify issues.
- Any code changes made to the project are automatically built and tested, ensuring that issues are identified early in the development process.
- In addition to developing and managing the backend RESTful API, I also designed and developed the frontend using Angular and React. This involved creating UI components, integrating with the backend API, and ensuring a seamless user experience.
- By leveraging the features of the Google Cloud Platform (GCP), such as Google Kubernetes Engine (GKE) and Cloud Build, I can develop, deploy, and manage APIs efficiently and effectively.
- Any code changes made to the project are automatically built and tested, ensuring that issues are identified early in the development process.
- Develop and optimize complex queries, stored procedures, triggers, and functions using Oracle PL/SQL, to perform data manipulation and analysis for the "Capital Market" application, ensuring data integrity and quality.
- As part of my responsibilities for this project, I also ensured the secure integration of the frontend with the backend API, implementing authentication and authorization mechanisms to protect sensitive data and prevent unauthorized access.

- Actively contribute to the development and maintenance of the enterprise application "Capital Market" Ensuring seamless functionality and optimal performance.
- Assume responsibility for code maintenance and administration panel management, implementing best practices to uphold the application's stability and reliability.

**Environment:** Java 1.8, Kafka, Swagger, Bigdata, Docker, Spring batch, Spring Boot, , AWS, GCP, CI/CD, Jenkins, Visual Studio Code, Eclipse, RedHat Kubernetes (Pods), Oracle, Oracle PL/SQL, Git Repository, Jenkins, Micro Services, Restful Services, Linux, JIRA, , Redis, Kubernetes, RedHat Linux, Unix,

Software Engineer at  
**S&P Global**  
 Hyderabad, India

**08.2020 - 02.2023**

S&P Global's proprietary analysis coupled with customizable data and tools helps put clients in the driver's seat, enabling them to steer through complex global markets and seize opportunities. That includes unique data sets that cover everything from supply chains to ESG performance to private credit markets, providing clients with an understanding of market dynamics that delves far below the surface.

#### **Responsibilities:**

- Implemented authentication and authorization for the application using Spring Security and Oauth2.
- OAUTH 2.0 authentication framework is used to provide security to Restful web services by generating access token to access protected resources.
- Worked on Swagger API and auto-generated documentation for all REST calls. Involved in maintaining and updating the procedure for ETL process.
- Developed multiple enterprise applications using Spring Boot, Hibernate framework, Spring IOC, Spring MVC, Spring JDBC, Spring Annotations, Spring AOP , Spring Integration, frameworks, Restful web services.
- Implemented Restful web services which produces both XML and JSON files to perform tasks, Restful web service using Jersey for JAX-RS implementation, which leveraged both web & mobile applications.
- Migrate existing Monolithic architecture to full-fledged Microservices architecture using Spring Boot & Spring Cloud in multiple stages.
- Leveraged Oracle PL/SQL to create and maintain database objects, such as tables, views, indexes, sequences, synonyms, and user-defined data types, ensuring data consistency and security.
- Used management tools like Maven, Ant and Gradle for the building of deployable artifacts (jar, war, and ear) from source code and used artifacts repository managers like Nexus, JFrog for Maven builds.
- Design complex SQL queries using correlated sub queries, joins, recursive queries, PL/SQL stored procedures, Triggers.
- Design JUnit test cases to perform unit testing and to improve code coverage also used SonarQube for constitutes inspection of code quality to perform automatic review with static analysis of code toe detect bugs.
- Used JIRA tool for tracking new requirements, enhancements, bugs, and Bit bucket for version control.
- Involve in deploying systems on AWS Infrastructure services EC2, S3, SQS, and RDS & Cloud Formation.
- Designed and built security architecture using AWS Lambda, AWS API Gateway, AWS Cognito and AWS STS
- Setup CI/CD pipeline process for the application using the Jenkins tool.

**Environment:** Java, HTML, Scripting, JavaScript, GitHub, GitLab, Azure, TeamCity, Swagger API, OAUTH, JDBC, Spring Boot, Maven, Ant, Gradle, AWS Lambda, AWS Cognito, Jenkins, Oracle PL/SQL.

Software Engineer at  
**IHS Markit**  
Hyderabad, India

11.2018 - 07.2020

IHS Markit is a global information provider that offers a wide range of services to governments and financial markets. Their offerings include enterprise software, trading services, managed services, product design solutions, performance measurement, and marketing tools. My team at IHS Markit committed to design custom reports to our clients for their investment decisions by using advanced web technologies to enhance the decision-making experience.

**Responsibilities:**

- Created dynamic reports in Angular using Python tools such as Jinja2, PDFkit, and openpyxl to convert HTML templates into PDF, PPT, and EXCEL formats.
- Migrated existing SSRS reports to HTML reports. The reports were thoroughly tested to ensure that there were no data discrepancies post-migration.
- Developed and maintained Python scripts to extract, transform, and load data from various databases, warehouses, and data lakes for reporting and pitch book purposes.
- Designed and implemented a web-based application called DEVOS using Python frameworks such as Flask, Django, and Dash to enable users to map and visualize data interactively.
- Responsible for creating efficient design and developing User Interaction screens using HTML, CSS3, Bootstrap, JavaScript, Angular6 and Node JS.
- Leveraged Python modules such as requests, Beautiful Soup, and selenium to automate web scraping and data validation tasks.
- Integrated Python scripts with various APIs and web services such as Google Cloud Platform, AWS, and Azure to access and process data from different sources and platforms.
- Involved in Requirements gathering, Analysis, Design, Development and Testing of application using AGILE methodology (SCRUM) in a test-driven development (TDD) approach.
- Applied Python skills such as object-oriented programming, data structures, algorithms, and debugging to solve complex problems and optimize performance.
- Used Amazon Web Services AWS. Extensive experience in focusing on services like EC2, VPC, Cloud Watch, Cloud Front, IAM, S3, Amazon RDS, Elastic Cache, SNS, SQS.
- Used AWS Elastic Beanstalk service for deploying and scaling web applications and services developed with Java and Python.
- Build Restful API web services using Node JS and Express JS and used a full complement of Express, Angular JS, Node.JS, and Mongo DB to store and present assessments.

**Environment:** Python 2.7, Angular JS 1.1.5, Angular 6, MongoDB, HTML, CSS3, Node JS, Express JS, JavaScript, TypeScript, Azure, AWS, Headless Chromium, Team City, MS SQL, Visual Studio, GitLab, Linux Servers. IIS, Splunk.

Jr Software Engineer at  
**Shore Infotech India Private Limited**  
Hyderabad, India.

09.2014 - 10.2018

Shore Group is a company that provides technology and operations solutions to businesses of all sizes. They offer a range of services, including cloud strategy, data analytics, and AI/ML. Shore Group's global headquarters is in New

York, NY, and they have an R&D center in Hyderabad, India. We at Shore Group passionate about delivering exceptional results and helped our clients achieve their goals by providing custom reports for investment decisions.

### **Responsibilities:**

- Integrated SSRS with the Java application to generate and view reports, ensuring seamless integration and efficient report generation.
- Utilized Angular in conjunction with SSRS to design and develop reports that provided powerful visualizations and interactive functionality, enhancing the overall reporting experience.
- Leveraged my strong expertise in Angular JS to design custom report templates and build advanced dashboards, delivering reports that were user-friendly and highly effective in driving business decisions.
- Designed and developed SSRS reports based on business requirements, working with data sources, creating datasets, designing report layouts, and selecting appropriate visualizations.
- Debugged and troubleshooted issues with SSRS reports, such as data discrepancies, formatting errors, or performance issues, ensuring accurate and reliable reports.
- Used to write Splunk queries to check the activity of logs and troubleshoot reports. I also created a dashboard in Splunk to monitor the health of reports from the logs.
- I extracted data from the enterprise application and data warehouses to test custom reports. I then used Microsoft Excel to validate the generated report by comparing it with the extracted data from different sources.
- Collaborated closely with business stakeholders, data analysts, and developers to understand reporting requirements and ensure that reports met their needs and expectations.
- Documented reports, including report specifications, user manuals, and training materials, to ensure that reports could be maintained and supported over time.
- Secured and managed report access, ensuring that reports were secure, and that access was granted only to authorized users.
- Contributed to the success of the Java project by delivering high-quality reports that provided valuable insights to the business and helped drive decision-making.
- Demonstrated strong technical skills in Java, SSRS, and data analysis, as well as effective communication and collaboration skills in working with diverse teams.
- Ensured compliance with relevant standards and guidelines, such as security standards, data privacy regulations, and best practices for reporting and analytics.

**Environment:** SSRS, Java, Angular JS, Angular 1.1.5, RabbitMQ 3.3, Python 2.7, IIS, Windows Server 2012 R2, PowerBI, GitLab, TeamCity, HTML, CSS, SQL, Oracle, JavaScript, Visual Studio, C#, MS SQL, MS Excel. Splunk.

Technology Analyst at

**Blackapple Software Solutions**  
Hyderabad, India.

**02.2011 - 09.2014**

Blackapple Solutions provide efficient, scalable, and cost-effective consulting and technology solutions across industry verticals. They have a deep network of expertise that crosses industries and geographies, and they provide enormous quality and value to sustain the building of high-impact teams by identifying professionals with exceptional ability that fit the local business needs and cultural environment respect to the geographical location.

### **Responsibilities:**

- Analyzing and evaluating existing technology systems and infrastructure in the organization to identify areas for improvement and potential risks.
- Researching and identifying new technologies that can be implemented to enhance the organization's operations and competitiveness.
- Providing guidance and advice to other members of the organization on technology related matters.

- Developing and implementing technology strategies and roadmaps that align with the organization's goals and objectives.
- Monitoring and analyzing technology trends and their potential impact on the organization.
- Developing and maintaining relationships with technology vendors and service providers.
- Conducting cost-benefit analyses and ROI calculations to determine the feasibility of new technology initiatives.
- Overseeing technology projects from conception to completion, ensuring that they are delivered on time, within budget, and to the required quality standards.
- Ensuring that the organization's technology infrastructure is secure and compliant with relevant regulations and standards.
- Developing and implementing policies and procedures related to technology use and management within the organization.

## EDUCATION

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| ▪ MS Information Systems Technology<br>Wilmington University<br>2023 - Delaware, USA | ▪ M.B.A In Systems<br>Osmania University<br>2010 – Hyderabad, India |
| ▪ RedHat Certified Engineer  | ▪ Microsoft Certified IT Professional                               |