

Rajesh Boppana

E-mail: rajeshboppana@gmail.com; Mobile: 704-449-0394

AI Certified professional from MIT Sloan School with 16+ Years of experience in the IT industry. Expertise in Artificial Intelligence, Solutions Architecture, Machine learning, AWS SageMaker, Terraform, Python, API GateWay, AWS Step functions, AWS Lambdas, AWS S3, Spring, Java, SOA (REST Services) based enterprise applications. Attended Spring one 2GX conferences in the year 2014 & 2015.

Skills & Expertise

- Worked on Prediction & Recommender Systems using Machine Learning using AWS SageMaker, Terraform, Python, API Gateway, AWS Step functions, AWS Lambdas, AWS S3, GIT, Data Lake,
- Attended SpringOne2GX 2015 & 2014 Conference & training by Pivotal
- 2+ Years of experience in deploying AWS.
- 5+ Years of Solutions Architecture Experience
- 5+ Years of experience in Agile Development / Practices.
- Built projects using Continuous Integration and Delivery(CI/CD).
- Highly skilled at leading global development teams and lead a team of developers.

Education:

Artificial Intelligence for Business Strategy - MIT SLOAN - Aug 2019

Masters in Computer Applications - India - 2003

Achievements:

- Secured 7th Rank in the university and honored with Master of Computer Applications.
- Champ Award from StateFarm
- Above and Beyond award from Cognizant Technology Solutions.

Professional Experience:

StateFarm

Lead Machine Learning Developer

Sep 2019 - Present

- Developed and deployed 2 machine learning models in production.
- Built supervised learning models based on XGBOOST algorithm.
- Developed Data Transformations to transform data to machine readable format.
- Performed Correlation Analysis to identify weak and strong correlations.
- Performed target mappings using Feature Engineering techniques.
- To improve performance performed developed Hyper Parameter tuning
- Benchmarked Predictive models like Random Forest, Light GBM, Support Vector Machine(SVM), Linear Regression, XGBOOST and finalized the XGBOOST model as best fit for our prediction.
- Splitting data into train, test and validation data sets
- Developed the step function using AWS to retrain the models.
- Explored machine learning and how it can be applied in a business context to gain strategic advantage.
- Explore robotics and how robots can be used in a business context to gain strategic advantage.

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- Consider the merits of the human-machine partnership and any ethical concerns that may arise from the use of AI in an organization. Developed a roadmap for implementing AI, and consider the future of business with AI technologies.
- Deployed the project using Terraform
- Integrated Code coverage using checkmarks, terrascanner and NIKS scans.
- Developed Application in TDD and used Agile methodologies for Sprint Planning
- Developed BIZ APIS with GET, PUT, POST, PATCH, DELETE crud operations.(Both Consumer & Producer)
- Deployed application in the C3 Server built on Amazon AWS.
- Maintained Source Control in GIT

Skills: Machine learning, AWS SageMaker, Terraform, Python, API Gateway, AWS Step functions, AWS Lambdas, AWS S3, Spring, Java, SOA (REST Services), AWS Connect, Robotics, Natural Language Processing, Machine Learning, Artificial Intelligence for Business, AWS Sagemaker, Java, Spring, J2EE, GIT.

MIT Sloan

Artificial Intelligence for Business Strategy

June 2019 - Aug 2019

Artificial Intelligence: Implications for business strategy project with MIT

- Learn about the history of AI, its role in collective intelligence, and how to gain strategic advantage.
- Explore machine learning and how it can be applied in a business context to gain strategic advantage.
- Explore NLP and how it can be applied in a business context to gain strategic advantage.
- Explore robotics and how robots can be used in a business context to gain strategic advantage.
- Consider the merits of the human-machine partnership and any ethical concerns that may arise from the use of AI in an organization. Developed a roadmap for implementing AI, and consider the future of business with AI technologies.
- Built supervised learning models based on XGBOOST algorithm.
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Skills: Robotics, Natural Language Processing, Machine Learning, Artificial Intelligence for Business Machine learning, AWS SageMaker, Terraform, Python, API Gateway, AWS Step functions, AWS Lambdas, AWS S3, Spring, Java, SOA (REST Services), AWS Connect, Robotics, Natural Language Processing, Machine Learning, Artificial Intelligence for Business, AWS Sagemaker, Java, Spring, J2EE, GIT

Rajesh Boppa

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TIAA & NTT Data

Senior developer

Charlotte, NC Since July 2018 - Sep 2019

Working on java & spring development projects.

Responsibilities:

- Designed and Developed Spring Restful Services for the modules with Spring Boot.
- Built a project using Gradle, Jenkins and achieved Continuous Integration and Delivery(CI/CD).
- Developed Restful services through Mule ESB.
- Ability to view / Search Mule ESB responses in Splunk Mule ESB viewer.
- Actively involved in troubleshooting ESB issues during failures in Splunk.
- Integrated Code coverage using Sonar plugins.
- Developed Application in TDD and used Agile methodologies for Sprint Planning
- Developed BIZ APIS with GET, PUT, POST, PATCH, DELETE crud operations.(Both Consumer & Producer)
- Developed DAO classes and implemented JPA framework using Spring Data.
- Built JUnits using TDD approach for unit testing.
- Deployed application in the C3 Server built on Amazon AWS.
- Maintained Source Control in GIT
- Developed a web page using AngularJS
- Working with JUnit and mocking frameworks.
- Created Integration Test Cases using PostMan and SoapUI(RESTful Web Services)
- Troubleshoot & Supported Tier 1 projects 24X7 using Splunk

Technology Stack: Java8, AngularJS,Mule, DPW, Spring Framework(Boot, MVC), Web-services (REST, SOAP), Spring Security, SOA (Service Oriented Architecture), Vmware Vfabric Tc server, GIT, Node JS, Gradle, javaScript.

Infosys

Lead Developer / Architect

Nov 2017 - July 2018

Greater Chicago, IL

Working on a java development project for the Manufacturing client.

Responsibilities:

- Designed and Developed Spring Restful Services for the modules using Spring Boot.
- Designed RESTful Services using SWAGGER.
- Built a project using Maven, Jenkins and achieved Continuous Integration and Delivery(CI/CD). Integrated Code coverage using Sonar and Checkstyle plugins.
- Pivotal Cloud Foundry Experience(PCF)
- Developed BIZ APIS with GET, PUT, POST, PATCH, DELETE crud operations.(Both Consumer & Producer)
- Developed security for Restful Service using SAML
- Developed React JS/ Redux, Connectors for UI frameworks
- Developed Application in TDD and used Agile methodologies for Sprint Planning
- Developed DAO classes and implemented JPA framework using Spring Data.
- Built JUnits using TDD approach for unit testing.
- Deployed application in the AWS cloud Environment.
- Used IntelliJ for the workstation(IDE).
- Maintained Source Control in GIT
- Created Integration Test Cases using PostMan and SoapUI(RESTful Web Services)

Technology Stack: Java, Spring Framework(Boot, MVC), React JS, Web-services (REST), Spring Security, SOA (Service Oriented Architecture),AWS, Vmware Vfabric Tc server, GIT, IntelliJ, Node JS, Maven, javaScript.

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Bank of America
Lead Developer / Architect

March 2016-July 2017
Charlotte, NC

- Hands-on: Design, Develop & Implement Solutions using Java, Spring Frameworks(Spring MVC, WebServices(Soap & REST), Spring, Maven, Splunk, Git, JavaScript
- Created a Technical design document(TDD) for an application using pub/sub architecture.
- Designed and developed Biz API(RESTful WebServices) for an Enterprise application using pub/sub architecture.
- Developed Controller classes using Spring MVC for request, response paradigm.
- Developed BIZ APIS with GET, PUT, POST, PATCH, DELETE crud operations.(Both Consumer & Producer)
- Designed and developed a RESTful Web-Service for Mobile Texting.
- Developed model classes using Java & Spring to validate security threats & alert when threat is identified.
- Developed security for Restful Service using OAUTH 2 pattern
- Expertise in Spring Security both client and ServerSide
- Experience in setting up security using LDAP, Single Sign On methods.
- Extensively used Spring IOC, AOP concepts, Spring MVC to develop the application.
- Developed DAO classes & implemented JPA framework using Hibernate.
- Designed & developed Spring Listeners to read data from MQ.
- Implemented continuous Integration using (Maven,Jenkins)
- Created JUnit test cases for unit testing.
- Created Integration Test Cases for Biz API's(RESTful WebServices)
- Developed Support Strategies for the application & helped end users during critical issues.
- Used STS as a workstation(IDE) for development.

Skills: Java, Spring Framework(Boot, MVC), Web-services (REST), BIZ API's, Spring Security, LDAP, OAUTH2, SOA (Service Oriented Architecture), Vmware Vfabric Tc server, GIT, STS, Node JS, , Splunk, Maven, javaScript.

Global Source IT / StateFarm
Level4 Spring Developer

Jan 2013 – Dec 2016
GreaterChicago,IL

- Design, develop applications using Java, Spring Frameworks(Spring MVC, WebServices(Soap & REST), Spring Data, Maven, Splunk, Mule ESB, Postgres DB, Subversion, Sonar, Spring, Jenkins, CMP
- Design & Developed an In-memory Caching solution using Gemfire, Spring/Java Frameworks & V-lookup architectural pattern for an enterprise service that is consumed by 250 applications across the organization.
- Design & Developed an enterprise application for Data Access reviews using Splunk, Spring Integration & XD, Spring Web Services, MVC, Gemfire, Postgres, Jenkins, Maven and deployed in Private Cloud(AWS).
- Developed a solution for reference architecture that can be used as a starting point or reference by developers. Deployed the application in AWS based private cloud.
- Design & Developed a three-tier application for Modular UI development. An UI interacts with BIZ API's built with Restful API to call native backend services.(JavaScript, Spring Boot, JQuery, Spring MVC RESTTemplate, Ember JS)
 - Created Technical Design Document for the Project & played a key role in getting the approval from business partners.
 - Developed Restful BIZ APIS for GET, PUT, POST, PATCH & DELETE operations. (Both Consumer & Producer)
 - Developed Web Services for the module with Spring RestTemplate.
- Developed Controller classes using Spring MVC for request, response paradigm.
- Developed security for RestfulService using OAUTH 2 pattern
- Expertise in Spring Security both client and ServerSide
- Experience in setting up security using LDAP, Single Sign On methods.
- Extensively used Spring IOC, AOP concepts, Spring MVC to develop the application.
- Performing Splunk queries for getting data, logs and different behaviors from the server.

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- Performed and consumed REST web services provide member authentication.
- Performed debugging of the application using Log4J and Jenkins is used as a build tool.
- Enhanced Checkstyle to add new rules and Performed code reviews for applications.
- Exposure to MicroService Architecture.
- Used STS as a workstation(IDE) for development.
- Developed Integration & Load test suites for Web-Services using SOAPUI
- Implemented continuous Integration using (Maven,Jenkins)
- Created JUnit test cases for unit testing.
- Provides high-level analysis and design reviews to other department members to avoid duplication of effort in solving the same application problems with different products.
- Provide Guidance & Best practices for Application & Data Access Solutions(Spring JDBC).
- Involved in Project development for business critical solutions & complex services.
- Provides high-level analysis and design reviews to capability areas to avoid duplication of effort in solving the application problems.
- Collaborate with projects / lead developers to ensure the architectural direction is implemented into the solution. Works with project teams to identify areas where there may be integration, continuity, impacts, reuse, and dependencies between efforts.

Skills: Java, Spring Framework(Cloud, Boot, MVC, Data, Batch), AWS (Private Cloud), Spring Web-services (SOAP, REST), BIZ API's, MicroServices, Paas, Gemfire, Spring Security, Spring XD, Spring JDBC, Spring Batch Architecture, Mule ESB(Enterprise Service Bus), Mega Enterprise Architecture, SOA (Service Oriented Architecture), SOAP UI, Vmware Vfabric TCserver, Postgres, GIT, STS, Splunk, Maven.

Cognizant Technology Solutions, USA.

APR 2004 - Dec 2012

Clients: Staples, Delta, Nielsen, RR-Donnelley, 3M

Associate / Tech Lead / Subject Matter Expert (SME)

As a Tech Lead and Subject Matter Expert (SME),

- Responsible for the delivery of the end to end delivery of projects on scheduled deployment date for Cognizant clients.
- Plan, architect, design, analyze, develop, code, and test applications to satisfy business requirements for large, complex projects.
- Created Technical Design Document for the Project & played a key role in getting the approval from business partners.
- Adhere to architecture standards, mentor less experienced team members, perform code reviews, and lead presentations in architecture review, strategic technology directions, and best practice development.
- Experience in setting up security using LDAP, Single Sign On methods.
- Contribute to architectural/design feasibility discussions, prototype development and code reviews.
- Keep abreast with the latest developments in Enterprise Java and open source technologies; share knowledge with the team and propose adoption of new technology.
- Collaborate with the Business Analysts & SMEs to perform detailed requirements analysis
- Responsible for Design, Development & Unit Testing of assigned components/modules. Support production implementation & post-production issues.

Design / Development (Hands - On)

- Designed & developed applications using Java, Spring MVC, Spring Web-Services, Spring Batch.
- Design & Developed UI using HTML5, Javascript, CSS
- Experience in setting up security using LDAP, Single Sign On methods.
- Designed and Developed CRUD operations for the REST & SOAP web-services.
- Created WSDL with input and output operations, schema elements for the SOAP based Web-services.
- Developed Controller classes using Spring MVC for request, response paradigm.
- Extensively used Spring IOC, AOP concepts, Spring MVC to develop the application.
- Developed Transaction Management using Spring JDBC & JPA.
- Developed Data Objects, Persistence.xml for Tables/Entities for JPA using EclipseLink.
- Created Integration Test Cases for testing the Web Services using SOAPUI.
- Developed Spring Batch ItemReader, Writer, processor and listeners for projects.

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- Developed Listeners to handle and Track the exceptions in the Framework. Also integrated these listeners to Mail service which can alert the business exception scenarios.
- Developed Spring Bootstrap context and config files (Batch job Factory-Override-context.xml, Job-context.xml, datasource-context.xml, email-context.xml, global-context.xml, email-context.xml)
- Developed SpringBatchItemWrite Mail service which will email the job results on Success / Failures.
- Developed the JIL file and worked on setting up the scheduler for the Java batch jobs using Autosys.
- Worked with Engineering teams to Set up Tivoli & Wily Monitors to track / alert exceptional scenarios and performance bottlenecks. Implemented the plan for the rollover of this project to production.
- Involved in setting up LDAP securities.
- Created Spring Batch Repository to track the errors, job execution steps and timing information.
- Designed and Developed Purge strategies with help of List partitioning in oracle 11g.
- Performed debugging of the application using Log4J and Jenkins is used as a build tool.
- Experience in build tools like Maven, ANT and source control tools like SVN/CVS
- Involved in setting up Cruise control & SCM Pro to Fund lineup application..
- Designed and Developed security guidelines to filter local hosts and to incorporate security standards.
- Developed Junit Test Cases to launch spring batch jobs without DB and Server interactions.
- Used STS as a workstation(IDE) for development.

Environment: Java, Spring MVC, RESTTemplate, Spring Web services, Spring Batch Architecture, STS, Autosys, EclipseLink, Junit, SoapUI, IBM MQ Series, Eclipse, Apache ant, Oracle 11g, Perl, TCServe, Wily, Tivoli, Eclipse UML Plugin