

Shrinath Managuli

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WORK PROFILE

Senior Software Engineer with **8+ years** professional experience in areas of:

- **Java** : Java 8, Spring 4, Hibernate 4.x, **Spring Boot 2.x**
 - **UI** : ES6, **Angular 8**, **Bootstrap 4** UI, MEAN stack
 - **BRMS** : Drools Rule Engine
 - **Real Time Communication**: Agora SDK
 - **Enterprise Integration**: Mule ESB, ActiveMQ, MSMQ, SOA
 - **Machine Learning**: Document Classification (DSL), Winnow Classifier
 - **Scripting**: Python 3+, SQL
 - **Cloud**: AWS Lambda, AWS S3, AWS API Gateway, AWS CloudFormation, EC2
 - **CI/CD**: Bamboo, SonarCube, BitBucket, JIRA, Docker
 - **Certification**: MCD - Integration and API Associate (Mule 3.8)
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Work Experience Includes:

Software Development

- Developed backend using **NodeJS**
- Extensively built the UI using **Angular 8** framework
- Developed several modules and flows using **Mule ESB**
- Developed RTC/RTM using **Agora Web SDK**
- Extensive development using **Spring Boot 2.x**, **Hibernate**
- Delivered functional business flow using **AWS Lambda** and **AWS S3**, **AWS API Gateway**
- Implemented **Mule** exception strategies and redelivery policies for the work flows.
- Developed XSD files for service generation in **Mule ESB**
- Hands on experience with **Micro-Services** design and development.
- Developed UI changes in AngularJS 8.x to improve usability
- Extensively involved with Drools- rule writing (BRMS)
- Extensively worked with XPath 2.x

Business Process Reengineering

- Successfully did POC to translate natural language to **Drools** rule instructions using ANTLR
- Created design documents that optimize the work flow in web services in **Mule**

Real-Time communication video/messaging

- Developed Web RTC using **Agora SDK** with Angular for web.
- Developed Web group Chat application using **Agora SDK** for web.

Project Management

- Managing a module of 3 members that deals with Drools rule writing – delivered more than 300 rules in time bound manner.
- Managing a team of 4 in collaboration with onsite team for Machine Learning (DSL).
- Managed to help and contribute to client legacy software in time bound requirement.

Application Design/Development

- Involved in Requirement gathering and solutioning the design and requirements.
- Hands on experience with cloud-centric application development.

Mentoring

- Mentoring/Grooming junior developers for upskilling them.

Stack-Overflow

- Reputation **350 points**
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Project Experience

Banking Aggregator Endpoints (Micro service)

- Duration : Present
- Team Size : 5
- Methodology : Agile - Kanban
- Role : Senior Engineer

The project targets to create API endpoints for OEM vendors for credit and discounted offers via the bank portal.

- ✓ Responsible for creating API endpoints.
- ✓ Reviewing the code of the team members and mentoring
- ✓ Implemented the design with Spring Boot, Hibernate and Azure Cloud.

Digital Transformation (Micro service)

- Duration : 3 years
- Team Size : 10
- Methodology : Agile - Scrum
- Role : Module Owner

The project is transforming the legacy system into new adaptable cloud centric application for enterprise transformation.

- ✓ Responsible in collecting requirements and building tech design
- ✓ Reviewing the code of the team members and mentoring
- ✓ Implemented business logic using Spring Boot, Hibernate, Angular 8 and AWS Cloud.

MOPR (Amazon Cloud)

- Duration : 12 months
- Team Size : 4
- Methodology : Agile - Scrum
- Role : Senior Engineer

The project provides a solution to legacy application to upgrade and enhance the cloud technology in provided latest and varied business solutions.

- ✓ Responsible in collecting requirements and building tech design
- ✓ Reviewing the code of the team members and mentoring
- ✓ Implemented business logic using AWS Lambda, AWS S3 and API Gateway

Asset Management (MEAN Stack UI)

- Duration : 3 months
- Team Size : 6
- Methodology : Agile - Scrum
- Role : Senior Engineer

The project is to enable the customer with managing the data of company assets spread along the geography. The software would be featured with asset comparing capabilities in real-time and assist the authorized users to take effective business decisions. Codebase would be deployed and managed in the cloud.

- ✓ Responsible in collecting requirements and building tech design
- ✓ Reviewing the code of the team members and mentoring
- ✓ Implemented business logic using NodeJS
- ✓ Built and deployed the code in Cloud Foundry

SAGITTA (Machine Learning)

- Duration : 6 months
- Team Size : 4
- Methodology : Agile - Scrum
- Role : Senior Engineer (Module lead)

The project is to teach the in-house developed document classification software (ADC) how to process and categorize the mortgage/insurance documents; also improving the software by raising bugs and giving feedback to development team.

The process aims to improve the recall and precision rates to accuracy.

- ✓ Analyzing and improving the recall and precision of given variety of documents
- ✓ Raising bugs and help improving the classification software.
- ✓ Solving the problems in creative ways and sharing the knowledge within team.

QUASAR RULES (Business Rules)

- Duration : 6 months
- Team Size : 3
- Methodology : Agile - Kanban
- Role : Senior Engineer (Module lead)

The project was aimed to produce business rules that support the Quasar Web. In effect this would replace the legacy software that was used XPath based rules to process the business logic.

- ✓ Wrote high quality rules based on the domain specific language
- ✓ Identified and raised bugs that enhanced the software quality
- ✓ Mentored and reviewed team work-in-progress.

QUASAR WEB (Web Development)

- Duration : 12 months
- Team Size : 6
- Methodology : Agile - Scrum
- Role : Senior Engineer

The project was aimed to develop a sophisticated rule engine along with custom DSL for business validations. The software would also serve as replacement for legacy software, thereby improving flexibility and scalability.

- ✓ Produced POC for custom translation of natural language using ANTLR
- ✓ Developed UI using AngularJS, Bootstrap and JavaScript
- ✓ Developed pagination and filtering in Hibernate
- ✓ Implemented business logic in core java
- ✓ Wrote Junit tests at functional level.
- ✓ Tested and resolved bugs in fixed time frame

STELLAR (Enterprise Integration Project – **Mule ESB**)

- Duration : 12 months
- Team Size : 8
- Methodology : Kanban - Customized
- Role : Engineer

The client is into **SOA Integration** domain and this project is about customizing the enterprise integration to various third-party solution providers in a seamless and scalable way. Aggregating and composing several inputs and orchestrating the data flow for productive results using **Mule** and **Drools**.

- ✓ Analyzing, scoping and Documentation of requirements with client co-ordination
- ✓ Worked with the customer in collecting requirements and worked with the team to get the implementation.
- ✓ Involved in writing JUnit test cases for quality assurance.
- ✓ Involved in build and deployment of application in QA Environment
- ✓ Worked with Drools Rule Engine for integrating business rules into the system.
- ✓ Work on tuning the application for performance.
- ✓ Worked on the ActiveMQ JMS and MSMQ integrations.
- ✓ Created proxy service for document upload validations and enrichment.

LAMBDA (Bug Fixing/Maintenance)

- Duration : 8 months
- Team Size : 8
- Methodology : Waterfall
- Role : Engineer

Lambda is bug fixing cycle for Operational Support System (OSS) for IP based telephony system software. Providing regular patches and bug fixes to the OSS system, testing and deployment in CI environment were routine of the project objective.

- ✓ Implementing bug fixes using Java, Servlet, JSP with MySQL.
 - ✓ Developed user interfaces using JSP and FLEX4.
 - ✓ Wrote Clean up code using Python Scripting.
 - ✓ Testing and reviewing peer codes before deploying to the CI system.
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EMPLOYMENT

Tech Mahindra Ltd
Bengaluru, Karnataka
Senior Software Engineer

Since: **April/2017**

Aspire Systems India (P) Ltd
Chennai, Tamil Nadu
Senior Software Engineer

Since: **May/2013**
Until: **April/2017**

EDUCATION/PROFESSIONAL DEVELOPMENT

REVA University
Bengaluru, Karnataka
Bachelor of Engineering (Computer Science) (2010)