RAHUL AGARWAL

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About Me

I am a Developer with 8 years of IT experience. I have experience designing and building systems that are scalable and performant. I have delivered various high performance middleware and enterprise applications on *J2EE, Spring* technologies. I have also designed and built *REST Services* & *API* based on *JAX-RS* & *Spring REST*.

I like to learn and evaluate new tools and frameworks to find out if they can better suit the future needs. Recently, I have taken up *Angular* and looking for opportunities which can help apply my learnings and advance my skills further.

Currently, I am involved with one of the clients of my employer to integrate their enterprise systems using *Spring Integration* with both legacy and cloud based services. The test driven development style that we have adopted during this project has brought me to admire the significance of writing good tests and ease of having a CI-CD setup.

Tools & Skills

I work primarily on Java based tools and frameworks, however I also have good experience developing dynamic HTML based UI with help of JavaScript and jQuery.

Here's a list of tools and framework and self-ascertained proficiency –

Skill	Proficiency
Java/J2EE	★★★★★
Spring Core	★★★★
Spring MVC + REST	★★★★
Spring JDBC + Data JPA	★★★★
Spring Integration	★★★
Hibernate	★★★
HTML	★★★★
CSS	★★
Bootstrap	★★★★
jQuery	★★★★
JavaScript	★★★
Angular/TypeScript	★★
JUnit	★★★★
Mockito	★★★

Skill	Rating
PowerMock	★★ (2)
WireMock	★★★ (3)
Maven	★★★★ (4)
Jenkins	★ (1)
SonarQube	★★★★ (4)
Git & Github	★★ (2)
Tortoise SVN	★★★ (3)
Eclipse, STS, IBM RAD	★★★★ (4)
Tomcat, Websphere	★★★ (3)
Visual Studio Code	★★★ (3)
Node, NPM	★ (1)

Professional Engagements

Feb 2018 - Current

Associate, Cognizant Technology Solutions

Design & development of Spring Integration based service to communicate information between VC++ based system with 3rd party REST API and Microsoft Azure Service Bus via Tibco EMS.

Role & Responsibility

- Analyze 3rd Party API and Azure Service Bus data flows and design a data structure to filter and transform data between API and VC++ client.
- Collaboration with Client Developer to communicate, design, plan and implement requirement changes.
- Develop codebase for the service.
- Development of Test bed for System Integration test that can perform testing with dynamic data sets.

Achievements

- Picked up Spring Integration on the job and built up significant expertise of the framework within 4 weeks of project initiation.
- Received multiple client appreciations for successful delivery cycles with client recommended technology stack and framework.
- Continuous Integration setup in client CI-CD (Jenkins) environment.

Jul 2017 - Jan 2018
Associate, Cognizant Technology Solutions

Design & development of Spring based system to analyze operational data flow between client and their partners for identifying and correcting data discrepancies.

Role & Responsibility

- Analyze requirements, identify use cases and technical specifications. Plan the project schedule, team size etc.
- Design application architectural components (JMS, REST Service, Quartz jobs, DB etc.) and communication channels.
- Determine development tools and frameworks.
- UI design and mockup.
- Creation of Project artifacts like [Non-] Functional Specification, UI design etc.
- Planning and distribution of tasks. Track and report schedule variance and update project delivery schedule.
- Functional testing, Quality Control, deployment and delivery.

Nov 2016 - Mar 2017
Associate, Cognizant Technology Solutions

Migration of Microsoft Access DB based standalone application to web based distributed system and integrate with client portal.

Sep 2016 - Nov 2016
Associate, Cognizant Technology Solutions

Build a responsive web portal to report real-time daily/monthly operational/performance KPI for client executives to plan future operational efficiency.

Role & Responsibility

- Analysis of existing system to identify KPI calculation algorithms.
- Design REST Service, communication format and develop JAX-RS based service to expose determined parameter values to responsive UI.
- Collaborate mockup design of responsive layout in with web designer.
- Development of Struts based J2EE backend for responsive UI and communication channels with REST service.
- Functional testing, deployment and warranty support.

Mar 2016 – Aug 2016
Associate, Cognizant Technology Solutions

- Develop a highly available, high performance concurrent system that can process data from multiple different systems in reasonable time.
- System should be able to withstand database failureand continue operation without it affecting normal processing.
- System should be able to replay processing after recovery from database failure.
- System should be able to report transaction failures between integrated systems to human POC automatically.

Role & Responsibility

- Fully responsible for development, testing and delivery of all modules.
- Collaborate with Principal Architect regarding requirement changes, system design updates, technology stack determination etc.
- Technical documentation including Functional Spec, UI design, Service Contract design etc.
- Distribution of tasks to team members, tracking progress and quality of delivery periodically.
- Report risks and delays to project manager, onsite coordinator and revise plan and schedule post changes to requirements.

Achievements

- Delivered 100% bug-free code to production despite numerous requirement changes, resource re-allocation etc.
- Delivered final System with a 100% performance growth on expected/agreed numbers by implementing a highly concurrent system.
- Received multiple appreciations from client for above expectation deliveries.
- Built a file-system based custom caching solution for handling database failures due to client limitations of using existing caching solutions like ehcache, infinispan.

Oct 2014 - Mar 2016
Associate, Cognizant Technology Solutions

Worked on various web projects and middleware applications based on Struts, jQuery, EJB, JunitEE, SOAP services etc. with solo responsibility of requirement understanding, technical stack decisions, design, development, testing and deployments.

Mar 2011 - Jun 2014
Programmer Analyst, Cognizant Technology Solutions

- Worked for maintenance and support on Internal Compliance systems of a leading US based Insurance provider.

	- Worked with Struts, Adobe Flex, IBM Filenet and various Java/J2EE technologies for day to day maintenance and support activities. - Roles and responsibility included day to day maintenance and support activities, bug fixes, feature updates, ticket handling etc. - Lead a small team of 3 members (inclusive) for 2 years before moving to better opportunities. - Received multiple accolades from clients for handling critical issues in production.
Additional Responsibilities	I act as an active member in a team of Code Quality review specialists and Solution designers in my current project. I make periodic presentations to various development teams to introduce them with new technologies and good practices to follow for effective usage. I have also taken part in a few coding challenges organized by our organization where we took part forming team of various members from different development portfolios. I also had opportunities to mentor few junior colleagues and it has been a good experience having to share the learning from my professional career to help build their confidence and skills.
Education	**Bachelor of Technology, Computer Science & Engineering** SMIT, West Bengal University of Technology August 2010 GPA 8.06
Certificates	Cognizant Certified Professional in Core Java Brainbench Certified in Struts Brainbench Certified in Business Writing Brainbench Certified in Telephonic Etiquette

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