

Ramprabhakar Rajamahanthi

Java Full Stack Lead_Developer ,ANGULAR17+, Python & Kubernetes, APIGEE, CI/CD - Cloud Migration, GEN AI

Linkedin: <https://www.linkedin.com/in/ramrajamahanthi/>

Summary:

- Overall, 15+ years of experience in Analysis, Designing, Developing, Deploying and Maintaining web based and back-end applications.
- Leading a team of 15+ people includes onshore and offshore along with being contributing Development and providing Solution Architecture to the multiple Applications in Agile methodology where Individual contribution is mandatory along with handling/assisting the team.
- Cloud Migration of **20** applications from on-premises to **Cloud Native platform that runs in Kubernetes**.
- **Designed and built/coded** - complex and critical business applications utilizing Java11+, angular17+ , J2EE, JSP, Design Patterns, Servlets, XML, Spring, Spring JPA, Web Services (SOAP, Rest), APIGEE, JDBC and JMS.
- Completely Versed with creating **OAS document, APIGEE GATEWAY , Concourse CI/CD pipelines, helm charts , Harness , Rancher , docker in Kubernetes environment**.
- Proficient experience in Java/J2EE technologies, Spring, **Spring boot, Micro-services**, Restful web services and front-end technologies HTML, CSS and **angular** frameworks and cloud technologies.
- Experience with creating angular controllers, modules, pipes, custom directives, decorators, and services to interface with restful services.
- Proficient experience in **Kubernetes**, helm charts, concourse CI/CD, **Harness**, Rancher.
- Experience in domains ranging from Banking, Healthcare, Insurance, Finance.
- Followed DevOps practices such as Continuous Integration and Continuous Deployments of applications, deploying into production quickly and fixing the issues as early as possible.
- Excellent proficiency in Core Java concepts such as Collections, Generics, Multi-Threading, Serialization, File I/O.
- Extensively worked on servers such as Apache Tomcat, IBM Web Sphere, Nitro.
- Experience on back-end databases like SQL, Oracle, DB2 and exposure to MongoDB (NoSQL).
- Extensive experience in Agile (Scrum, Distributed Agile), Pair Programming and Test-Driven Development.
- Quick learner and always interested in learning new technologies.
- Knowledge in Configuring the SVN and GIT repository with Continuous Integration systems like Cruise Control and Jenkins.
- Followed the Test-driven approach during the Development of Project.
- Good problem solving and analytical skills with ability to complete task within given time frame as an individual contributor or as a part of a team.
- Strengths include leadership, disciplined work ethic, strong technical background, and simultaneous management of team to achieve results and facilitate growth.

Technical Skills:

- **Languages / Frameworks** -- Java 11+, Python, J2EE, Spring, Spring Boot, Microservices, Webservices Rest & Soap, Apache Camel, JSP & Servlets, HTML, CSS, JavaScript, XML, angular, ES6, Underscore JS, jQuery, Bootstrap.
- **Tools / Technologies** Apache Kafka, IBM MQ Server, Oracle, MySQL, DB2, Apache Tomcat, IBM WebSphere, Maven, Jenkins, Docker, Git, Svn, Splunk, New Relic, Jira, Confluence, IntelliJ, Eclipse, IBM RAD, **SonarQube**, Jenkins and **gitcopilot**.
- **Methodologies** Agile/Scrum, Waterfall
- **Cloud Technologies** **Kubernetes, Docker**, helm charts, Rancher, concourse, **Harness**
- **IDE's** **eclipse , IBM RADS, intellij**

Experience:

Nationwide Mutual Insurance, Phoenix, AZ

Mar 2020 – till date

Project/Technical Lead Developer/Architect.

Project Name:

- ESS – Excess surplus and specialty Portal application (ess-portal apps)
- Agent Onboarding Application
- Underwriting Desktop &
- Program manager portlet.

ESS: Nationwide Excess & Surplus/Specialty offers portfolio of protection through our Excess & Surplus, Management Liability and Specialty, Surety and Program offerings. E&S segment provides coverage for risks that is generally not available within the admitted market, while Nationwide Specialty segment covers highly specialized and emerging risks that require deep expertise and/or significant capacity.

There are some 40 applications that we

- + Build and maintain New/existing applications on daily basis and springboot api, Java 11 and angular latest versions.
- + Migration of apps from on-prem to Cloud Native Platform in Kuberenetes.
- + Upgrades and Fixing Vulnerabilities.

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ESS-User-Access/ESS-User-Admin:

Authenticates and Authorizes several Thousand users to login into ESS-PORTAL apps on daily basis.

Some of the other apps that I maintain are Bulletins , reports apps, forms lists apps and many more.

ESS Agent Onboarding App:

ESS Agent onboarding app is new Application which facilitates all agents across Nationwide to onboard and enroll for any ongoing trainings on daily basis to support their Business.

Technical Environment:

Spring boot, Java 11/Java17, angular17, **Kubernetes, Docker**, Concourse CI/CD, Harbor, **Harness Next Gen**, Rancher, **APIGEE**, Bootstrap, HTML5, CSS3. Java 8, J2EE, JSON, REST APIs, JIRA, Agile scrum, GIT, VS Code, eclipse.

Roles and Responsibilities:

- Designed , Developed, coded highly critical **Application Authentication flow** of USER-ACCESS , USER-ADMIN and ESS-PORTAL app in **angular , springboot** , and hosting the app in kubernetes environment by developing **CD/CD** pipelines in concourse , customized **helm charts** that includes **ingress.yaml** file, **Harness, Rancher, deployment.yaml** file, Horizontal Pod Autoscaling mechanisms etc.
- Have lead of Team of 15 people onshore and offshore on the overall Applications maintenance.
- Provided Solution Architecture to requirements discussing with Business, Preparing technical design flow diagrams.
- Implemented single sign on authentication and role-based authorization.
- Developed APIs in Java11 as per the requirements and integrated with angular application using HttpClient module.
- Worked on **APIGEE** Developer portal and written API proxies, added validations and secured APIs.
- Written unit test cases and maintained code-coverage up to 90% and used GEN AI , git copilot to generate for some of them.
- Used **Git copilot** Actively as Nationwide encouraging all of its developer to use GitCopilot.
- Developed various guard services to secure the webpages/components from direct access in the browser
- Developing microservices and creating API's using Java Spring Boot framework using Maven as a build tool and Oracle as enterprise level database.
- Performed all CRUD operations in micro-services which interacts with Oracle database.
- Coded angular reactive forms and http service calls that interacts and consumes JAVA APIs.
- Coded with creating angular custom directives, decorators, and services to interface with both restful services.
- Implemented **Angular** Router to enable navigation from one view to the next as customer performs application tasks.
- Implemented Spring security for user authentication and service access authorization.
- Used **Concourse** pipelines and achieved Continuous Integration by writing pipeline.yml files.
- Used **Helm** charts to achieve continuous Deployment in Rancher which is on **Kubernetes** and **docker**.
- Designed and developed the application using Agile Scrum methodology by breaking down the project to several sprints.
- Managing the version control for the deliverables by streamlining and re-basing the development streams of GIT.
- Performed self/peer code reviews and approving GIT pull requests and provided suggestions to improve quality.
- Investigated problems that were causing application service downtime.

ESS-UD (Underwriting Desktop):

UD is a system that handles all paper applications that are submitted to Nationwide ESS. Once submitted UD allows individuals to manipulate the policy, gather requirements and make decisions on how we should proceed with then given application. This process can take anywhere from a few days to weeks or even months depending on the complication with the application.

Technologies: Java 8, J2EE, Spring boot, angular, AWS EC2, AWS Code pipeline, HTML5, CSS3, TypeScript, Bootstrap, jQuery, SASS, Angular 10, JSON, REST APIs, JIRA, Agile scrum, GIT, VS Code.

ESS-Bulletins:

Bulletins is the critical apps the authorizes NW associates to create bulletins and publish them to agents and agencies.

Roles and Responsibilities:

- Worked on end to end for this application from setting up environments, deploying to Kubernetes through CI/CD, designing APIs, coding APIs and on angular too.
- Developing Micro Services and creating API's using Java Spring Boot framework using Maven as a build tool and Oracle as enterprise level database.
- Coded angular reactive forms and http service calls that interacts and consumes JAVA APIs.
- Enhanced application performance by Angular 17+ Component based development in view of future Angular framework transitions.
- Implemented Spring security for user authentication and service access authorization.
- Written pipeline.yml files so that CI/CD is implemented automatically.
- Developing Micro Services and creating API's using Java Spring Boot framework using Maven as a build tool and Oracle as enterprise level database.
- Performed all CRUD operations in micro-services which interacts with Oracle database.
- Modified Existing application to reduce defects and increase performance.

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- Familiar with AGILE methodology and worked for UD – Build Teams.
- Investigated problems that were causing application service downtime.
- Managing the version control for the deliverables by streamlining and re-basing the development streams of GIT.
- Performed self/peer code reviews and provided suggestions to improve quality.

Technologies: Java 8, J2EE, Springboot, angular, Kubernetes, HTML5, CSS3, TypeScript, Bootstrap, jQuery, SASS, Angular 10, JSON, REST APIs, JIRA, Agile scrum, GIT, VS Code.

Department of Health and services, Madison, WI

Mar 2017 – Mar 2020

Sr. Java Developer

Project Name: CARES project

CARES (Client Assistance for Reemployment and Economic Support) is automated application used to determine eligibility for several Wisconsin's major welfare reform and public assistance programs including Food stamp, Medical Assistance (including Badger Care Plus, Childless Adults, Family Care and Senior Care) and Child Care, Wisconsin Works (W-2). CARES integrate the policy needs of multiple programs into one comprehensive automated system that share functionality and data related to application and eligibility determination for assistance, issuance of benefits, provision of services, and case management.

Badger Care Plus Module:

Badger Care Plus will provide access to affordable, comprehensive health care coverage for all children in Wisconsin. The new program will be simple - simple to understand, simple to enroll in, and simple to administer. Badger Care Plus will promote and support healthy living for low-income children, families, and pregnant women.

Badger Care Plus has four strategic goals are:

- 1) Cover all children
 - 2) Provide coverage and enhanced benefits for pregnant women
 - 3) Make the program simple
 - 4) Promote prevention and healthy behaviors
- Badger Care Plus will merge Family Medicaid, Badger Care, and Healthy Start to form a comprehensive health insurance program for low-income children and families. Coverage will be expanded to seven new populations. CARES do also have mobile application – myAccess application which provides user interface through Which user can APPLY FOR BENEFITS by enrolling and see history of benefits.

Roles and Responsibilities:

- Implemented Spring security for user authentication and service access authorization.
- Developing Micro Services and creating API's using Java Spring Boot framework using Maven as a build tool and Oracle as enterprise level database.
- Developed Micro-services from scratch for myAccess mobile application.
- Performed all CRUD operations in micro-services which interacts with Oracle database.
- Utilized various technologies such as Java 8, Spring, Spring Boot, Apache Camel (messaging), Apache Kafka (event streaming), and oracle for the backend for both CWW and myAccess(mobile) applications.
- Knowledge in Configuring the SVN and GIT repository with Continuous Integration systems like Cruise Control and Jenkins.
- Deploying the application to IBM WebSphere 8.5
- Used Swagger for the microservices and Rest API documentation.
- Used Swagger editor tool for Rest services design.
- Implemented internal and external views for the application.
- Wrote and implemented the business logic to expose it as a Rest webservice.
- Used angular to develop the front-end UI.
- Followed DevOps practices such as Continuous Integration of applications, deploying into production quickly, and fixing the issues as early as possible.
- Learned experience on OAuth2 secured rest services.
- Implemented Spring Security for authentication and authorization.
- Utilized Agile/Scrum methodology with Test Driven Development (TDD).
- Participated in requirements gathering and client meetings.
- Analyzed each requirement and clarified any ambiguity with the client.
- Provided impact analysis and high-level estimates to develop the requirements.
- Used Jira as the Software development tracking tool.
- Followed the coding standards and ensured each requirement was developed and Unit tested.
- Performed Root-Cause analysis of any issues that arose post-implementation and resolved any issues.
- Attended technical design review and release reviews with core team members and understood the impacts to various other system processes and downstream systems.

Technologies: Java8, Spring, Angular, Spring Boot, Spring Data, Spring Security OAuth, Apache Camel, Apache Kafka, Oracle, DB2, Apache Tomcat, IBM MQ server, Maven, JavaScript, Docker.

American Family Insurance, Madison, WI

Apr 2016 – Mar 2017

Technology Analyst

Project Name: Billing and Payments Application

Description:

Billing center is Primary user interface to customer billing data. Web based system which allows viewing and updating of billing data. This is built on angular, and database is db2.

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Payment manager – Application used to process payment online. Payment Manager interfaces with multiple Billing systems (Personal Lines Customer Billing, Commercial & Farm/Ranch Billing, Life Vantage Billing and AFFS Loans Payment Manager has multiple payment methods for use by Agents (Check Debit, EFT, Credit Card, AFT, Pay by Phone manual entry screens) and external customers (Pay by Phone IVR, Pay Now, Online Billing). Payment Manager includes a payment service (Buy Now) which is used by Online Quote and Bind to take payments from customers purchasing insurance on the web.

Amfam myaccount is a web application which provides customers to Billing and Policy information.

Roles and Responsibilities:

- Responsible to take the knowledge transfer for the projects from their specific SME's
- Participated in Agile Development Team and having daily SCRUM meeting for progress reporting as well as task distributing.
- Worked with the Business Team in understanding the requirements and provide proper estimations.
- Used Spring MVC and Spring Boot to implement Model View Controller design pattern and Spring IOC for Dependency Injection.
- Used a Microservice architecture with Spring Boot based services interacting through a combination of REST to build, test and deploy Microservices.
- Developed and design completely new Restful API services using spring boot from scratch.
- Performed all CRUD operations using micro-services which interacts with Oracle database.
- Extensively worked on SOAP and REST services used for all middleware applications.
- Integrated message queues with IBM WebSphere.
- Design, Development and create program specifications and unit test plans for Quality Management.
- Managing the version control for the deliverables by streamlining and re-basing the development streams of GIT.
- Perform root-cause analysis of any issues that arise post-implementation and work on solutions related to issue fixing.
- Performed self/peer code reviews and provided suggestions to improve quality.
- Coordinating the offshore team and sharing the Knowledge from Onshore to Offshore.

Technologies: Java 1.7, J2EE, Spring MVC, Spring boot, jQuery, JSP, HTML, XML, CSS, JavaScript, My Eclipse, hibernate, oracle, Windows and Linux, Jenkins, GIT, Harvest.

Nationwide, USA

Technology Analyst

Jan 2014 – Apr 2016

Project Name: Agent Gateway systems (AGS) & CSF PRESENTATION SYSTEMS

Agent Gateway Systems

Agent Gateway suite of applications help the client's agents to reach out to their customers with new policy sales opportunities. They also provide a common user-interface to manage their customer information for various systems like Policy, Quotes, Billing, and Claims etc. The suite includes Agent Gateway Client Management System (AGCM), Agent Marketing System (AGM), Desktop and Dispatcher applications.

Roles and Responsibilities:

- Responsible to provide a quick fix on priority base for the incident tickets created by the business team on the application.
- Worked with the Business Team in understanding the requirements and provide proper estimations for the new enhancements.
- Design, Development and create program specifications and unit test plans for Quality Management.
- Development and enhancement of new and existing Web application.
- Release Management and Maintenance Support.
- Working on technology frameworks Java, J2EE, REST, XSLT, Angular
- On call support to the ATA batch job abends, where the batch jobs present in the Informatica server as informatica workflows and in Linux server as shell scripts.
- Managing the version control for the deliverables by streamlining and re-basing the development streams of SVN and Harvest.
- Coordinating the offshore team and sharing the Knowledge from Onshore to Offshore.

Application server: IBM WebSphere Application Server.

Technologies: Java 1.6, J2EE, Spring MVC, jQuery, JSP, HTML, XML, CSS, JavaScript, WAS 8.0, RAD, JUnit, DB2, Windows and Linux, ESP Batch job Scheduler, Informatica workflows.

Technology Analyst

Projects Name: Span of Control Systems (SOCS) & Agency Transfers Application (ATA)

Dec 2011 - Dec 2013

Span of Control Systems (SOCS)

The goal of this project was to provide the Hierarchy information starting from agents rolling up to the chairman in the organization. This Hierarchy is spread across Exclusive as well as Independent and Direct agents associated with selling nationwide policies. This application is one of the critical sources of system from sales reporting and calculations of commission's perspective.

Agency Transfer Application (ATA)

Agent Transfers Application comes under Portfolio Transfer Management sales division. This application is used by Insurance (exclusive) agents and NW associates to transfer the policies from one agent (agency) to another agent (agency). The business objective is to automate the transfer process without exposing the underlying complexities of policy transfer procedures. Core Principles of this application is to Validate the Agent information and Policy information, minimize time spent on user input, auto population of information from different systems, validations on key information, ability to interface with the policy systems, reports generation, Agent (Agency) transfer and activity monitoring, Security and Auditing abilities.

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Roles and Responsibilities:

- Worked with the Business Team in understanding the requirements and provide proper estimation.
- Design, Development and create program specifications and unit test plans for Quality Management.
- Release Management and Maintenance Support
- Development and enhancement of new and existing Web applications.
- Followed agile methodology of Iteration Model by using the test-driven development (TDD).
- Few of the Enhancements have been done by Paired Programming.
- Used Maven to build the project.
- Managing the version control for the deliverables by streamlining and re-basing the development streams of SVN.
- Knowledge Management and Offshore-Onshore Coordination and Stakeholder Management.

Application server: IBM WebSphere Application Server

Technologies: Java 1.6, J2EE, Spring, jQuery, EXT Js, JSP, HTML, XML, JSON, AJAX, CSS, JavaScript, WAS 8.0, RAD, JUnit, Log4j, DB2, Window, JIBX, JaxWS, SOAP UI.

Process followed: Agile process and TDD (test driven development).

Bank of Nova Scotia, Canada

June 2007 – Dec 2011

Software Developer

Project Name: Alert and triggers and mobile banking & Business Deposits Commercial cards

Scotia Bank introduces a new channel (Mobile Banking) for the Scotia bank Customers through which a customer can have informational, transactional and payment services designed for speed and convenience. Mobile channel will be another channel like other alternate channels like ABM, PC, SOL, TS. Mobile and SOL will share the same password. KT will provide customer access to this new channel, store the mapping of the CSS to mobile phone numbers and/or unique id numbers (iPhone, iTouch) and support the transactions coming from the Mobile channel.

Roles & Responsibilities:

- Develop the business application understanding the business requirements.
- Analyses the requirements from the key stake holders and design the High level and Low-level technical documents.
- Code the programs from scratch which communicates with database and fetches information.
- To review the code and prepare the code review report.
- Used DB2 as Database.
- To conduct unit test and to prepare unit test plan and specifications for ensuring quality Deliverables and perform Unit testing System Testing.
- Supporting Integration Testing and Acceptance level testing.
- Perform root-cause analysis of any issues that arise post-implementation and work on solutions related to issue fixing.
- To ensure the deliverables are defect free and intact with the functionality
- Performing quality level verification and submitting report related to the same after post implementation taking hyper care of the deliverables.

Technologies: Java, J2EE, Spring, jQuery, EXT Js, JSP, HTML, XML, JSON, AJAX, CSS, JavaScript,

Education

- Bachelor of Technology from Jawaharlal Nehru Technological University, Hyderabad in 2007