KANNAN RAJAPPAN

Oshawa, Ontario. L1K 2P9

**Technical Consultant**

Over 14+ years of proficiency at designing, developing applications, modernization, integration using Java, Spring/Spring Boot, Microservices, and Rest API’s. Expertise in whole product development life cycle from getting user requirements in meetings, analysis with peers and architects, design and development with code reviews, unit testing with debugging tools, delivering with quality assurance, user training and creating documentations.

**Soft Skills**

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| * **Effective Communication** | * **Research & Analysis** |
| * **Critical Thinking** | * **Analytical** |
| * **Problem Solving** | * **Creativity** |
| * **Decision-Making** | * **Time Management** |
| * **Best practices** | * **Mentoring** |

**Technical Skills**

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| **Design Skills** | OOPS, Design Patterns, Data Structures and Algorithms |
| **Programming Languages** | Java 6/7/8/9/10/11/17, Python, HTML, Shell, JavaScript, XML, YAML, and SQL |
| **JavaEE Technologies** | Swing, SWT, JavaFx, Scene Builder, JVM, JDBC, Servlets, JSP, JMS, SSL, TLS, JSON, Concurrency, Multithreading, Socket Programming, Encryption, Decryption, Generics and Collections |
| **Networking Protocols** | FTP, SMTP, TCP, UDP, HTTP, OAuth 2.0 |
| **Frameworks** | DOM, SAX Parser, JAXB, JAXP, Hibernate, Spring Core, Spring MVC, Spring AOP, Spring Security, Spring Data JDBC, Spring Data JPA, Spring Boot2.x, Webservices, REST API, Microservices and its Pattern, Swagger, Open API, RabbitMQ, Redis and Lombok |
| **Database** | MySQL, SQL Server, PostgreSQL, Oracle, Cassandra and DB2 |
| **Container** | Docker |
| **Cloud Environment** | Azure |
| **Project Methodology** | Waterfall and Agile |
| **Project Management/Defect Tracking Tool** | Rational Team Concert and JIRA |
| **Application Servers** | Apache Tomcat, JBoss, Wildfly, Jetty |
| **Development IDEs** | Eclipse, NetBeans, IntelliJ Idea, SQL Developer, Visual Studio, PyCharm |
| **Testing Frameworks** | Junit, Mockito and customized tools |
| **Reporting Tool** | Jasper Report, IReport, Crystal Report |
| **Version Control** | StarTeam, Perforce, GitHub, Bitbucket |
| **Build Tools** | Ant, Maven, Jenkins, CI/CD pipeline |
| **Security Vulnerability Tool** | BlackDuck, Fortify |
| **Code Quality Tool** | Coverity, SonarQube |
| **Operating System** | Windows, Unix/Linux |
| **Batch Automation Tool** | Control-M, Autosys |
| **UML and Documentation** | Microsoft Visio, Draw.io, Confluence and SharePoint |
| **Debugging and Monitoring Tool** | Jcmd, Jmap, TCPView, Putty, JVisual VM, JProfiler, Eclipse Memory Analyzer, Process Monitor, Performance Monitor, SQL Profiler, AppDynamics, Wireshark, SOAP, and Postman |

**Professional Experience**

**HSBC Bank, Toronto**

**Technical Consultant September 2022 – Present**

* Working in Wholesale Credit and Lending development team.
* Developed microservices to overcome the time-consuming manual process like XFOS Trade Visibility, Remittance Search and Clone application, Batch Data Logic Error Notification across all regions.
* Developing ETL migration project to upgrade from DataStage to Spring Boot, Microservice’s based application.
* Prepared technical design documents, functional documents and developed POC for DataStage migration application.
* Developed POC for Microservice based application to issue payments for MT messages and PDF extraction application to automate customer notebook creation.
* Upgraded Azul Zulu OpenJDK from Oracle JDK 11 across LOANIQ applications.
* Responsible for functional and technical requirement understanding, estimation for the User story point, planning, analyses, design, coding, testing and development.
* Involving in tracking production issue and fixing the issues.
* DEV/SIT/UAT testing and defect fixing along with code integration and peer code review.
* Involved in writing business layers methods for various transactions.
* Used application monitoring tools like Splunk and Dynatrace.
* Production Support and Monitoring Control-M batch jobs for multiple regions.
* Developed multithreaded applications for multiple automation tasks for production support tools.
* Having experience in Python scripting.
* Hands on experience in using Continuous Delivery and Continuous Integration/Testing.
* Interaction and coordination with client and business analyst for resolving functional issues.
* Prepared technical design documents and functional documents for Control-M application.
* Worked in Bitbucket and GitHub source control and build tools.
* Knowledge on ETL concepts and development of SQL complex queries using CTEs, joins, stored procedures, and views.
* More than 5 years of experience in SOAP/REST and API-based development for cloud-based system integrations.
* Provided hands on reports Java reports for back-end office such as trade reports and remittance data.

**Technologies**: Java 8, 11, Spring Boot, Microservices, Junit, Oracle 10g, Tomcat 7x, Rest Webservices, Soap, Linux, Windows, Mockito, SonarQube, Jenkins, GitHub, Bitbucket, JIRA, Confluence, Jenkins, Open API, Swagger, Postman, Oracle, Lombok, and Maven.

**Scotiabank, Toronto**

**Technical Consultant October 2021 – September 2022**

* Worked in Core and Derivatives and Risk Product development team to integrate multiple products with various Scotiabank existing products.
* Upgraded migrated the Java 6 to Java 11 and designed and developed Microservice APIs by using Java and SpringBoot to post currency trades such as futures, bonds, securities, and it feeds to various Scotiabank analytic services.
* Designed and developed the real time pricing and trade feeds from Bloomberg markets and processed Market Data and sent it to Distributed Analytical Service.
* Developed Business logic, Data access objects, utility classes and helper methods.
* Developed unit test cases and unit tested modules with Junit, Mockito framework.
* Prepared design documents, function documents for developed modules.
* Worked in Bitbucket and GitHub source control and build tools.
* SSL implementation for Market Data subscription application.
* Involved in Log4j vulnerability upgrade for Microservices.
* Integrated with Bloomberg Open API in Scotiabank digital application.
* Working knowledge in Trade life cycle and Capital Markets.
* Experience in Leadership skills and Skill Development to solve problems.
* Troubleshoot any issues arising out of application install and validation.

**Technologies**: Java 8, 11, Kafka, Spring Boot 2.7, Microservices, Junit, Mockito, SonarQube, Jenkins, GitHub, Bitbucket, JIRA, Open API, Swagger, Postman, Cassandra, Docker, Lombok, and Maven.

**Scientific Games, Mississauga, Ontario**

**Lead/Senior Software Engineer November 2017 – October 2021**

* Led a development team to upgrade and migrate systems to latest SpringBoot framework and delivered service APIs and patches, written in Java, JBoss/Wildfly, Spring Boot, Hibernate and SQL Server. Wrote 70% of code, reviewed the others 30% and deployed in Microsoft Azure Platform (Cloud Native Architecture).
* Worked at Ontario Lottery and Gaming Corporation (OLG) Canada, am main point of contact to design, code, deploy, automation and performance testing, deliver and managing product build packages via Phone/Email daily with OLG clients and SG Service Technicians.
* As a Subject Matter Expert (SME) developed and provided solutions for production issues on a timely manner.
* Developed and worked on ETL/DWH integration project to upgrade the SQL Server Instance for various Regions.
* Resolved/provided required solutions with every Casino Site, every Electronic Gaming Machine, Slot issues/problems from start to finish service cycle.
* Designed, developed, and integrated Single Sign on Authentication with existing Java Applications and validating with Active Directory to manage the users across java applications.
* Designed and developed text log extraction from critical application logs using Kotlin and TornadoFx.
* Designed and developed report generation tool using JBoss/Wildfly, SQL database.
* Provided Fast-efficient solutions, Technical Support, Professionalism, on-demand communication daily.
* Ensured Highest level of Standards with an urgency for each service call, issues via phone follow ups, SG Techs using outlined communications standards daily
* Worked at Alberta Gaming, Liquor and Cannabis Commission (AGLC), British Columbia Lottery Corporation (BCLC) to design, code, deploy, automation testing, deliver and managing the SG product build packages via Phone/Email daily with SG Service Technicians.
* Deploy SG proprietary products like Slot Data System, Alert Grid, Asset Matrix, and User Matrix at customer sites.
* Identifying the Critical application for System resource utilization (CPU, Memory, Threads etc.) & JVM heap size was monitored using AppDynamics and system tools.
* Understanding of Network Firewalls, Load - balancers and network design.
* Troubleshoot any issues arising out of application install and validation.
* Provide Technical Training to customer on SG proprietary software products and assist customer with performing day to day IT operations.
* Gather requirements for new enhancements/customizations from customers.
* Work with SG product management team to come up Functional Requirement Documentations.
* Create System Design Documentation for specific Enhancements/Customizations and work with customer for design approval.
* Develop and Unit Test Enhancements/Customizations in accordance to the agreed upon design specifications.
* Support through QA/SIT/UAT and Production rollout phases for enhancements and customizations.
* Utilized each day MS Office Software Apps (MS Outlook, MS Excel, and MS SharePoint).
* Together with my Managers, and Directors at Scientific Games Corp, provided necessary suggestions for solutions to problems encountered.

**Technologies**: Java 8, Microsoft Azure, Python, RabbitMQ, JavaScript, JavaFx, Swing, SWT, JBoss/Wildfly, Spring Boot 2, Microservices, Junit, JMeter, Coverity, AppDynamics, GitHub, JIRA, REST API, Postman, Swagger, Postgre SQL, SQL Server, Oracle, Docker, Lombok, and Maven.

**Scientific Games, TamilNadu, India**

**Lead/Senior Software Engineer July 2010 – November 2017**

* Being a technical lead, guided the team at onshore/offshore in explaining the requirement & provided technical guidance, refactoring code using Java, JBoss/Wildfly, Spring framework with SQL Server base and provided solutions to deliver the Scientific Games product build packages across multiple regional such as US, Canada, Australia, and South Africa.
* Developed SG System Dashboard monitors critical system and application status like server availability, disk space, memory usage and DBMR status. The Dashboard application obtains information from the applications through agents or services that are installed in the respective application or database servers.
* Developed a major part of InSite application, written in C#, HTML5, JavaScript, Ajax, SQL for Australian Route Market. Site Controller will provide feature to manage a Route casino. Route Market is referred to small casinos, pubs, clubs, or any establishment providing gaming and entertainment service with two to two hundred slots. Performance tuning and load testing of application.
* Developed the admin module in SDS is used to start and stop a drop process: coins, bills, and slips. Track employee cards log on and log off employee cards from a shift and view the list of signed on cards.
* Developed an Interface for SDS Ticket Cashiering (STC) allows cashiers to redeem cashable promotional tickets.
* Developed a user interface for Slip Inquiry utility is used to retrieve and view the details of slips issued for jackpot, dispute, fill /bleed.
* Developed a printer format screen used to search, add, edit, and delete custom or available printer properties that are required for printing jackpot, dispute, and fill bleed slips.
* Developed a slip designer screen used to design jackpot, dispute, and the fill bleed slips. The fields selected in this option are printed on slips.
* Developed an export/import screen used to export or import the slip designer or the printer command XML configuration files.

**Technologies**: Java 6, 7 and 8, RabbitMQ, JavaFx, Swing, SWT, JBoss/Wildfly, Spring and Spring Boot, Hibernate, Microservices, Junit, JMeter, Coverity, AppDynamics, Perforce, REST API, Postgre SQL, SQL Server and Maven.

**Education and Professional Development**

Bachelor of Technology in Information Technology - Anna University Chennai, Tamil Nadu 2010

Diploma in Information Technology - AICTE - Chennai, Tamil Nadu 2007