# Venkateshwaran Mariappan
Senior Java/J2EE/Big Data/Scala Developer
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A result driven IT professional with 11+ years of experience in the banking and finance domain.

Summary of Professional Experience:

- 11+ years of experience in Analysis, design, develop web based, client/server, distributed architecture applications in Scala, Java, J2EE technologies, which includes hands on experience of 2+ years in Big Data technologies and designing and implementation using **Apache Spark.**
- Full lifecycle development experience on large, distributed and scalable business systems.
- Strong experience in **Scala, Java** and J2EE technologies.
- Expertise with the tools in Hadoop Ecosystem including Hadoop, Spark, Spark **Streaming**, Kafka, Yarn, Hive, and Zookeeper
- Good understanding of NoSQL databases and hands on work experience in writing applications on NoSQL databases like **Cassandra** and MongoDB
- Extensive Experience on importing and exporting data using **Apache Kafka**.
- Extensively worked on all the modules of Spring framework
- Strong experience in Enterprise integration technologies like **Apache Camel and Spring Integration**
- Strong experience in caching (Oracle Coherence) and transaction management
- Extensively used messaging with JMS, MDB, MQ and Solace
- Good experience in developing Spring Batch and standalone batch programs.
- Experience in Version control tools like Clear Case, SVN and Perforce and responsible for various software promotion and releases.
- Experience in Agile Scrum development.
- Actively involved in the efficient design and development of core server side java, multi-threading, high throughput N-tier, distributed applications using design patterns. Deep understanding of low latency and real-time application architecture.
- Highly skilled in Re-engineering projects and adapting to new technologies.
- Experience in developing web services using Spring WS and Rest.
- Experienced in writing ANT and MAVEN scripts to build and deploy Java applications.
- Possess strong working knowledge of Database Programming using SQL, PL/SQL, Triggers and Stored Procedures.
- Strong experience in design with UML using Enterprise Architect and Rational Rose.
- Excellent Leadership, interpersonal and communicational skills.
- Strong analytical, research and problem-solving skills.
- Ability to build proof of concepts and custom frameworks.
- Ability to learn and implement quickly and self-directed

**Technical Summary:**

- Languages:  Scala, Java
- Big Data/Hadoop Technologies:  Hadoop, Spark, Kafka, Hive and Zookeeper
- NO SQL Databases: Cassandra, MongoDB
- ELK:Elastic andKibana
- Docker and Kubernetes
- Enterprise Integration Framework: Apache Camel, Spring integration
- Web Development Frameworks: Spring MVC, GWT
- Web Technologies: JSP/Servlet, HTML, IBM Websphere Portlet
- ORM: Hibernate
- Databases:  Oracle, MS SQL, TERADATA
- Batch Framework: Spring Batch
- Tools:  IntelliJ, Eclipse, TOAD, PL SQL Developer, Net beans, RAD
- Scripting: Java Script, Ajax, CSS
- Version Control: Clearcase, SVN, Microsoft VSS, Perforce, GitHub
- Operating Systems: Windows, Linux
- Continuous Integration Tools: TeamCity, Hudson, Jenkins
- Middleware Messaging JMS: MQ, Solace, Active MQ, Kafka
- Automated Build tools: ANT, Maven
- Special Software/Tools: Cygwin, SOAP UI, Putty, MS Visio, Autopilot

**Education:**

Bachelor of Engineering in Electrical and Electronics Engineering (Anna University)

**WALMART, AR**                                                                MAR 2016- TILL DATE
SCALA/SPARK DEVELOPER

PROJECT: SETTLEMENT ENGINE (DISCOVER CREDIT SETTLEMENT)

When a customer swipes a card at point of sale, the transaction details are sent to the respective providers for the approval in real time. If the transaction has been authorized by the provider, the sale can be completed. The transaction details are then sent to Cash office. The treasury system will listen to the real time streaming of the transactions from various sources and persist them in the data store. For the credit transactions, settlement happens in Batch or in Online mode. The authorization logs will be processed and a settlement file will be created for each provider for various card types and will be sent the same day of the transaction to the provider. Provider will send the funding information in the confirmation files next day.

Responsibilities:
- Actively involved in the design and tech stack evaluation.

- ☐ Developed the module to consume the real-time messages from different sources like file system, Kafka, etc. using Spark Streaming.
- ☐ Implemented the real-time aggregation of messages using the Spark's mapWithState/updateStateByKeyfeature.
- ☐ Actively involved in data modeling for Cassandra.
- ☐ Developed the code to persist the data in the data store such as HDFS and Cassandra.
- ☐ Developed the data extraction module extract data from file system and from the Cassandra.
- ☐ Completed various POC's for the evaluation various technologies like AKKA, Storm etc.
- ☐ Push the logs and Messages to Elastic and MongoDb
- ☐ Created dashboard for the application with kibana
- ☐ Used Spark for building the settlement files.
- ☐ Used Scala test for writing unit test case.
- ☐ POC for using Docker and kubernetes for deployement
- ☐ Develop the project using Agile methodology. Participated in daily scrums, sprint review, retrospective & planning meetings to discuss the project's ongoing status and to provide updates for each sprint.

**WALMART, AR**                                                                                   FEB 15-MAR 2016
JAVA/J2EE DEVELOPER

PROJECT: SIGCAP (TAX AND TREASURY)

Sigcap is a technology migration project from the legacy code written in the C language to Apache camel framework as a part of modernization. Read the disputed charge back payment files from various credit providers like VISA, GE, AMEX, etc. After parsing the input, get the transaction details using a Rest service and retrieve the signature image stored in the DB. Create an image using the transaction details and signature and then FTP the deliverables to the corresponding providers.

Responsibilities:
- ☐ Develop the project using Agile methodology. Participated in daily scrums, sprint review, retrospective & planning meetings to discuss the project's ongoing status and to provide updates for each sprint.
- ☐ Designed the application using Apache Camel Framework.
- ☐ Involve in Analysis & business/functional requirement gathering, Design, Implementation, Development, Integration and Testing of the application's various components and modules.
- ☐ Create Camel routes using spring DSL.
- ☐ Using Camel Bindy to parse the files.
- ☐ Using Camel CXF component to call different webservices.
- ☐ Using Jasypt to encrypt the password and connection details.
- ☐ Using SOAP UI to test the Web Service calls to various services which gets the decrypted card information
- ☐ Using log4j tool for proper implementation of logging mechanism in the application.
- ☐ Using SVN and GIT as version control system to commit the source code and to create tags and branches

- Using Java Advanced Imaging to create Tiff images.
- Write Maven scripts to automate the deployment.
- Responsible for testing the code by performing Unit & System Testing of various components/modules of the application to validate acceptance criteria is met.

**BARCLAYS CAPITAL SERVICES, NJ**                                                  MAY 13 – FEB 15
JAVA/J2EE DEVELOPER

PROJECT: INPUT OUTPUT EXCHANGE (IOX)/BO ADAPTER

The IOX platform is a service-based architecture that allows the team to engineer solutions utilizing 'enterprise patterns'. By defining processes as enterprise patterns and developing solutions using these patterns, we are able to code a solution once and migrate additional jobs using this same code. Any additional jobs that fit a pattern can be migrated simply by configuration. The interesting aspect of this project is that 1,100 jobs were migrated to only seven services or patterns. This has allowed us to reduce the development and testing cycles significantly.

Responsibilities:
- Developed the project using Agile methodology. Participated in daily scrums, sprint review, retrospective & planning meetings to discuss the project's ongoing status and to provide updates for each sprint.
- Involved in Analysis & business/functional requirement gathering, Design, Implementation, Development, Integration and Testing of the application's various components and modules.
- Created camel routes for the FTP, File copy and NDM components
- Used Oracle coherence to cache the settlement details.
- Used log4j tool for proper implementation of logging mechanism in the application.
- Used pmd tool for code review and verification of coding standards as per specifications and best practices.
- Responsible for testing the code by performing Unit & System Testing of various components/modules of the application to validate acceptance criteria is met.
- Coordinated and conducted periodic demonstration of the application to the business team during the entire development cycle.
- Used perforce as version control system to commit the source code and to create tags and branches.
- Wrote Maven scripts to automate the deployment using Teamcity
- Responsible for fixing any technical defects & build failures.

**CITI MARKETS AND BANKING, NJ**                                                  OCT 10 – MAY 13
JAVA/J2EE DEVELOPER

PROJECT: TRANSACTION MANAGEMENT LAYER

Citi Markets & Banking (CMB) is one of the business groups of Citigroup that provide investment & commercial banking services covering institutional brokerage, advisory services, foreign exchange, structured products, derivatives, loans, leasing, and equipment finance. Global Corporate Operations

Technology (GCOT) applications are broadly classified into the following Portfolio -Trades Processing, Global Stock Record, NAM Settlements, NAM Corporate Actions, Retail Application Portfolio, and Operate Portfolio.

TML is the strategic trade processing engine for Global Operations and Finance, responsible for delivery of trades point from Middle Office to Back Office, and between Back Office systems. TML also maintains a centralized safe storage of trade information from which various BAU reports are generated and sent to various destination systems

Responsibilities:
- Involved in leading team, task allocations, mentoring, planning and estimations.
- Involved in team discussion on weekly basis and monitoring the project progress and participated in Code Reviews and Walkthroughs.
- Involved in preparing the Integrated Development Design Flow, Test Scenarios and Execution Plan, Impact Analysis documents
- Develop, implement and maintain a batch reports utilizing Spring Batch framework.
- Used Spring-JDBC to provide abstraction layer to DAOs.
- Message driven beans were used for asynchronous communication.
- Used log4j for proper implementation of logging mechanism in the application.
- Involved in completion of release modules and deployment on Dev/Test/UAT servers.
- Conduct weekly status meeting for the development team to discuss project progress and resolve issues and escalations.
- Worked extensively on Multithreading and Concurrency for implementing Batch Job Scheduling.
- Preparing Sequence Diagrams and Class Diagrams using UML


**ROYAL BANK OF SCOTLAND, UK**                                    MAY 08 – OCT 10
JAVA/J2EE DEVELOPER

PROJECT: TRANSACTION RELATED INFORMATION PROVISION (TRIP)

Middle office functions as a value adding entity between the Front office and the payment processing back offices. It takes care of Routing payments from Customers, Routing reports from Bank and tracking status of payments/reports at all stages.  TRIP is a portal for the employees of the bank to view and track the status of the various payments.

Responsibilities:
- Involved in Implementation, Development, Integration and Testing of the application's various components and modules.
- Developed the application using Rational Application Developer IDE and deployed the application using Websphere Application Server.
- Developed Webservices using Spring WS framework
- Used SOAP UI to test the services
- Jaxb parser were used for marshalling and un marshalling the request and response
- Used log4j for proper implementation of logging mechanism in the application.
- Used ehcache for boosting the performance.
- Responsible for content management by using the resource bundle Java classes.

**ABN AMRO, NETHERLANDS**                          JAN 07 – MAY08
PORTLET DEVELOPER

PROJECT: ACCESS ONLINE (AOL)

Access online portal integrates all the applications into a single portal umbrella. The website was developed to monitor all (national and international) payments, as well as handle all daily banking transactions, such as payments, subscribing to various kinds of alerts based on transitions, currency transactions. The website was built on the IBM Web Sphere Portal Framework Technology. The main feature of the portal, as the name stand for is that, act as a gate way for multiple applications that are deployed as portlet.

Responsibilities:
- Involved in implementation, development, integration and Testing of the application's various components and modules.
- Developed the application using Rational Application Developer IDE and deployed the application using Websphere Application Server.
- Analyzed the user requirement and designed various portlets.
- Involved in the UAT and SIT testing
- Created build scripts using Maven
- Accessed stored procedures and functions using JDBC Callable statements.
- Integrated with site minder and LDAP for the authentication

**ABN AMRO, NETHERLANDS**                          FEB06 – JAN07
JAVA DEVELOPER

PROJECT: PAYMENT ROUTER

Payment router is the heart of the mid office. the payments from the front office were routed to back office through payment router. Payment router validates, enriches and transforms the messages/payments into the back office specific formats and delivers it to the various downstream systems.

Responsibilities:
- Involved in development of various components
- Worked extensively with Multi-Threading in Java
- Involved in various level of testing and integration.
- SQL scripts to insert and update data in database for persistence.
- Develop the module to read the information from the queue using multiple threads