**Rajagopal Natesan**

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# Summary

* Over **20** years of Solid Experience in successful **Technical Leadership** and **Team Management** on many Software Projects and Tools this includes Analysis, Design, Development and Deployment.
* Expertise in **Functional** and **Object-Oriented** Programming, Analysis and Designin **Scala, Akka, Akka-Streams, Akka-Http,** **Java**, and **C++** and proficient in Object Modeling tools
* Extensive experience in Schema Design &Programming in In-memory Database **KDB/Q** and RDBMS like **Oracle,** **Sybase** and **MySQL.**
* Extensive knowledge and work experience in **Financial** and **Brokerage** Industries.
* Having thorough experience in implementing highly **Scalable, Stable, Fault Tolerant, Multitiered** and **Distributed** applications which would have **high throughput** and **low latency**.
* Hands on experience **Big Data** application development using **Apache Spark** and **Databricks**.

**Computer Skills**:

* Programming Languages: **Scala, Java, C++, JavaScript, SQL and HTML**
* Databases: **KDB/Q, Oracle** and **Sybase**
* Application Frameworks & Tool-Kits**:** **Akka, Akka-Http, Akka-Streams,** **J2EE** (Servlets, JSP, JMS, JDBC, XML, JMX,) **FIX**, **Struts**, **WebLogic** and **JBoss.**
* Operating Systems & Scripting Tools: **UNIX**, **Linux,** **MS** **Windows**, **PERL**, **SHELL** (bash, ksh), PERL, AWK etc.,
* Development Process, Methodologies & Tools: **Agile, Sprint & Scrum, JIRA**

## Education:

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## Master’s in Mathematics.

* Master’s in Computer Science.

**Bank of America** Oct 2017 – May 2021

As a Lead Developer involved in the Development of Strategic **Clearing** Application., Clearing is the process by which an organization acts as an intermediary and assumes the role of a buyer and seller for transactions in order to reconcile orders between transacting parties. The central part of this system is the matching engine which does the match of the Buys and the Sells.

Also, as Lead developer involved in the development of a **multiple microservice** applications to provide historical view (Web View or MS-Excel View) of the Security Record details per Security basis or Account Basis. This microservices were developed in **Scala, Scalatra, Eclipse Jetty Servlet Engine and Angular JS**

Also, as a Lead developer involved in the development of **Account Onboarding & Tax Operations** teams to implement tax documentation checks into account onboarding workflows to ensure accounts are compliant with tax regulations (US IRW Chapter 3, Chapter 4, Chapter 61, FATCA, French IFU, etc.) prior to account opening

Tools & Technology Used: **Scala, Akka, Akka-Streams, Akka-Http, Amps Streaming, Scalatra, Angular JS,**

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**Barclays Capital Inc.**  Nov 2009 – Sep 2017

As a Team Leader involved in the analysis, design and development of the Front Office **Options Order Manager** Application Software which has **Sales, Trading** Modules. This real-time application also has **Ticketing Module** to allocate the traded Options Securities into different Sub Accounts. Also, this has a Gateway module to different middle systems for **Booking, Clearing and settlements** etc. Also work involved like Code Optimization and Performance Tuning for **Optimal Concurrency** and **Parallelism** with **Multithreading** to achieve **high throughput** and **low latency**.

Tools & Technology Used: **Scala,** **Java, KDB/Q**, **FIX, TIBCO RV and Linux**.

**Goldman Sachs** Mar 2007 – Nov 2009

As a Lead Developer involved in analysis, design and development of middle office Trade processing application. This application handled the entire Goldman's **Booking (Client Side and Street Side)**, **Clearing** and **Settlements** as well as **Regulatory Reporting** which Equity, Fixed Income, Options and Futures Trades. This is a **distributed in-memory service-based application** handled huge volume of transactions. This is a **very highly scalable and expandable fault tolerant and high-performance oriented** application.

Tools & Technology Used: **Java,** **C++**, **Sybase**, **TIBCO EMS**, **JMX**, **RMI, JNI** and **Linux**.

**JP Morgan Chase** May 2005 – Mar2007

As the Lead Developer involved in reengineering of the Front Office applications for **Fixed Income Securities** to process **Post Trades** using **S**traight **T**hru **P**rocessing mechanism. All Post Trades were subscribed from different ECNs like **Tradeweb**, **Tullib Prebon,** and **Cantor/eSpeed**. Hands on experience in Administrating and configuring **ION Market view** platform.

Tools & Technology Used: **Java,** **C++, Rogue wave Tools.h++, MQ Series**, **Sybase**, **CORBA, JMX, FIX** and **Linux.**

**Merrill Lynch** Mar 2003 – May 2005

As a **Team Leader** involved in Reengineering of the **Stock Loan** (Securities Lending) Application by redesigning the entire application by replacing the Legacy Tools and Technologies which were the bottle necks in terms of performance.

Tools & Technology Used: **Java**, **J2EE** using **BEA WebLogic 7.1,** **Servlets**, **JSP**, **JavaScript,** **IBM** **MQ, Sybase, CORBA, Rogue wave Tools.h++, DBTools.h++ and Linux.**

**Deutsche Bank**  Jan 2002 – Mar 2003

**Responsibilities**:

As a **Lead Developer** involved in the **Analysis, Design** and full life cycle **development** of **International Money Transfer System.** This was a global money transfer application to meet strategic business objectives of Global Cash Services. Process individual, multi-currency payment orders through financial networks such as SWIFT, Telex, and FEDWIRE etc.

Tools & Technology Used: **Java, J2EE** using **BEA WebLogic 7.1, EJB,** **MQ Series, Servlets, JSP, JavaScript and Oracle.**

## Borland Software Corporation Jul 1999 – Jan 2002

As a **Principal Consultant** involved in the **Analysis, Design and Development** of the following application projects for different clients.

**Order Routing** System for[**www.livetrade.com**](http://www.livetrade.com)then client of Borland**,** this was an Order Routing Application those different incoming Orders and enriched and processed and routed to different ECS using the **Appia FIX** Engine. **Customer Care On-Line System** for **UUNET:** An On-Line Customer Care application to serve the High Bandwidth Customers.

Tools & Technology Used: **Java, J2EE** using **BEA WebLogic 7.1, EJB,** **MQ Series, Servlets, JSP, JavaScript and Oracle.**