**Ratikanta Panda**

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**PROFESSIONAL SUMMARY**

13+ Years of experience in Design and Development of large scale distributed applications using C++ and Java under Finance and Networking domains. Expertise on Real Time, Multi-threaded Low-Latency and High Available Distributed System. Good experience and strong understanding of Service Oriented Architecture, Messaging, Web Services, Cloud Native and Big data.

* Well adapt to Agile methodology. Excellent in managing relationship at Workplace.
* Effective knowledge on Data Structures, Algorithms, Design patterns and Multithreading.
* Excellent experience with C++, VC++, C++11 and C#. Effective knowledge in Template Generic programming, STL, Boost lib, POCO lib, gSOAP, MFC and QT frameworks.
* Strong experience in Core Java, Ant, Maven, Spring Boot, JMS, JDBC, Hibernate, Tomcat, Java Script, Node.js.
* Solid Knowledge on Database – Oracle, Sybase, Teradata, SQL, T-SQL, PLSQL, ESQL, Pro\* C, OCCI, JDBC and ODBC. Experience in creating complex SQL Queries and stored procedures.
* Have good work experience on ETL process, Big Data Applications and Real Time Streaming using – HDFS, Hive, Spark, Kafka.
* Strong experience on Messaging Middleware – JMS, Kafka, Solace, RabbitMQ and IBM MQ.
* Excellent knowledge on Web Services – REST, SOAP, WSDL, JSON, XML, XSLT, XSD.
* Strong on Network Programming – IPC, TCP/IP Socket programming, Multicasting.
* Experience on Cloud Native apps and Microservices using Pivotal Cloud Foundry (PCF).
* Experience on Python, Flask and PySpark, Numpy and Pandas.
* Have very good knowledge on Perl, Power Shell and Shell Scripts.
* Solid experience with build and deployment automation and CI/CD and DevOps concepts.
* Good Knowledge on Testing Processes, Test Automation, Performance Tuning, Unit Test Frameworks and Test Driven Development.

**TECHNICAL SKILLS**

* **Languages:** C++ ,VC++, C#, Java, Python, Node.js, SQL
* **Scripting**: Shell Scripts, Perl, PowerShell
* **Frameworks/Libs**- CppUnit, GTest, JUnit, MFC, QT, Boost, POCO, Spring
* **IDEs** - MS Visual Studio, Eclipse, IntelliJ
* **Build /Package Managers**- Make, CMake, MSBuild, Ant, Maven, NuGet
* **Version Control Tools:** Git, SVN, ClearCase
* **Database**: Sybase, Oracle, MySQL, Mongo DB
* **Web Technologies**: HTML5, CSS, Java Script, ASP.NET, Spring MVC, Angular
* **Web and Application servers**- Tomcat, IIS, JBoss EAP
* **Middleware:** Solace, Kafka, RabbitMQ, IBM MQ, REST, SOAP
* **Cloud :** Dockers , PCF, AWS
* **Big data and Streaming :**- HDFS, Hive, Spark and Kafka
* **Tools:** Gdb, Valgrind, Jenkin, JFrog Artifactory, Splunk, Jira, HPQC, ALM, Service Now, VersionOne, Wireshark, Curl , Soap UI,Postman, SQL Developer, Interactive SQL

**PROFESSIONAL EXPERIENCE**

**Client# Wells Fargo Bank, Charlotte, NC Jan, 2018 – till date**

**Company# Randstad Technology, USA**

**Role# Senior Developer**

*Wealth Investment Management (WIM)*

* Working for Charles River Development (CRD) project. Developed low latency core execution engine, core services and data services for IDS (Investment Domain Services), Product Master and Asset Management using C++/VC++.
* 1BIL/1BUS - Working on to build a most flexible, reliable and advance cloud based service bus. Designing and implementing Event based Microservices with Event Sourcing and Event Streaming using Java, Kafka, Solace and Spark. Developed Spring Boot Microservices with Kafka, and deployed in PCF.
* Developed message transformation engine using C++.
* Create stored procedures to enrich the data based on business rules before loading into APAMA engine.
* Supporting SolCheck UI.
* POC of 1CEP (Critical Event Prediction) using APAMA, C++, Solace and Java Script APIs.

**Environment:** C++, VC++, Oracle, Sybase, Java, Spring Boot, Kafka, Solace, APAMA, PySpark , Angular, Powershell, Splunk, Git, Jenkin, Pivotal Cloud Foundry

**Client# Walt Disney World, Orlando, FL June 2016 – Jan 2018**

**Company# Cognizant Tech Solution, USA**

**Role# Senior Developer**

*Guest and Organization Master (GO Master)*

* Design and Development of GO Master OLTP DB, Guest Data Integration (GDI), Guest Rule Engine (GRE)using C++ and Stored procedures.
* Developed Web and Messaging Services- Guest Service, Organization Service, Postal address validation services etc. using C++.
* Developed stored procedure for Guest and Organization databases.
* D3 Data warehouse - Designed and Developed ETL process and scalable pipelines to move real time data into Teradata using C++ and Python.
* Developed real-time analytics dashboard for Guest Studio to analyze guest data, volumes and applications health using VC++, MFC and Python.
* Implemented various batch jobs using - Python, Perl and Shell scripts.
* Production support and bug fixing.

**Environment:** C++, VC++, Oracle, Sybase, Teradata, PL/SQL, T-SQL, IBM MQ, Python, Git

**Client# E-Trade Financial Menlo Park, California Sept 2015 – June 2016**

**Company# Cognizant Tech Solution, USA**

**Role# Senior Developer**

*Account and Cash Management*

* Design and Development of real-time OLA account management and cash management services.
* Source of fund - Design and Development Web services. Created and Modified Tables, stored procedures functions and triggers as required using T-SQL.
* POC of real time fraud analysis in Hadoop/Spark, Kafka and Python.
* Bug fixing of Brokerage, i-Banking, and ESP (Employee Stock Plan) accounts and L3 production support.

**Environment:** C/C++, Java, Python, Perl, Java Script, Angular, Sybase, T-SQL, Oracle, RabbitMQ, Kafka, PySpark, Hadoop, HDFS, SVN, Jenkins.

**Client# Union Pacific Rail Road, Omaha, NE Feb 2014 – Sep 2015**

**Company# Tech Mahindra Ltd, USA**

**Role# Project Lead**

*Positive Train Control – High Available Train Control Component (HACC)*

* Design and Developments of web services and messaging services for locomotive, wayside and back office.
* I was involved in various aspects of development of Way Side Relay Service (WSSR), Queue Manager, Dynamic Subscription and Message Archiver (MA).
* Worked on features like message compression, routing criteria along with resolution of production issues.
* Developed Config Utility UI and Services.
* I also developed utility frameworks to test the Non-functional aspects of application particularly High Availability, message lookup from archived logs.
* Developed framework for performance test.
* Release management and customer support, as required by the client.

**Environment:** C++, VC++, Java, Spring MVC, Maven, Solace, boost, MFC, CMake, Oracle, Sybase,T-SQL, PLSQL, Windows, Linux

**Client# Union Pacific Rail Road,USA June 2011 – Feb 2014**

**Company# Tech Mahindra Ltd, India**

**Role# Project Lead**

*Positive Train Control – High Available Train Control Component(HACC)*

* Leading and technically managing the development team for quality deliverables.
* Reporting the module progress to client and management on weekly basis, identifying any show stopper issues, risks, its mitigation etc.
* Interact with customers to understand and analyzing the requirements, estimate effort to design, coding and testing.
* Design and Development of Class-d communication framework.
* Development of back office shipping order data services using VC++/T-SQL.
* Developed store procedures for Shipping Order DB.
* Developed EMP protocol analyzer using C++ and QT framework.
* Developed C++/ XML parser using Apache Xcerse for EMP messages.

**Environment:** C++, VC++, Solace, QT, Sybase, T-SQL, Svn, Jenkins, Windows, Linux.

**Client# Dutch Bank, Bangalore, India Aug 2010 – June 2011**

**Company# HCL Technology, Bangalore, India**

**Role# Tech Lead**

***Smart Order Router***

* Worked as part of team managing development and release of Smart Order router project. Involved in delivering major enhancements like Config service and message archiver.
* Worked on building automation framework, fixing production issues and analyzing performance bottlenecks.

**Environment:** C++, VC++, boost lib, Oracle, Sybase, Solace Messaging, Perl, Python

**Company# Siemens CT, Bangalore, India Dec 2007 – Aug 2010**

**Role# Senior System Engineer**

***Network Management Control System (NMCS)***

* I was involved in Design and Development of Communication Framework module.
* Involved in Design and Development of Container components.
* Developed NMCS Service Manager Console.
* Developed JAVA and C# adapters for CF module.
* Designed and Developed NFR test engine and Scripts.
* Automated build and smoke testing process using perl script.

**Environment:** VC++, MFC, C#, Window,Visual Studio, ClearCase, Perl

**Client# IBM India Software Lab, Bangalore, India June 2006 – Dec 2007**

**Company # Nagaraj Technologies Pvt. Ltd, Bangalore, India**

**Role# Software Engineer**

*Object Transaction Services (OTS)*

* Developed Messaging and CORBA services.
* Testing Automation using Perl and Bash scripts.

**Environment:** C++, CORBA, IBM MQ, Sybase, T-SQL, AIX, ClearCase

**EDUCATION**

* Master in Computer Application (MCA), Utkal University, India-2002 to 2005.
* Bachelor of Science (B SC) from Utkal University, India-1996 to 1999.