

# Somnath Musib

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Senior Professional – Technical Designer and Core Banking Implementation

Industry Preference: IT / Banking / Financial Services

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## PROFILE SUMMARY

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Java based enterprise application specialist with more than 7 years of experience:

- Strong experience in Java enterprise edition and core Java (Object Oriented design, concurrent application and scalable application design, Java Collections Framework, Java Class loading, Serialization, Java Virtual Machine internals, Java Memory Model and Garbage Collection)
- Micro service and cloud based design and development
- Expertise in object oriented analysis and design, UML, design principles & patterns
- In-depth understanding in Spring Framework (Dependency Injection, JDBC, JMS, MVC)
- In-depth knowledge in Maven Dependency Management System, Jenkins Continuous Integration and Team Foundation Server
- Strong knowledge in SQL and Oracle Database programming
- Strong working knowledge in SOAP and RESTful Web Services as well as SOAP web service security
- Expertise in different enterprise messaging platforms and application servers such as Weblogic and WebSphere. Have sound understanding in Weblogic Scripting and Web logic deployment models
- In-depth understanding in XML technologies (e.g. XML, XSD, JAXB and XSLT)
- Software Implementation life-cycle and Agile methodologies
- Senior technical designer for Core Banking Product Implementation

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## KEY SKILLS

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Frameworks	Spring, Hibernate, Apache CXF
Programming Languages	Java, PHP
XML Technologies	XML, XSL, XSD, JAXB
Build and CI	Maven, Jenkins, Team Foundation Server
Databases	Oracle
Application Servers	Weblogic, WebSphere
Source code management	GIT, SVN Tortoise
Trouble shooting tools	Eclipse MAT, YourKit, JProfiler Profiler, VisualVM
Other tools	SoapUI, SqlDeveloper

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## WORK EXPERIENCE

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### Project - Renovation of Banking Systems (ROBAS)

**Period** - May'18 till Date

**Work Location and Role** - Sydney, Australia as Designer

**Client** – Reserve Bank of Australia

**Employer** – Tata Consultancy Services

**Key Result Areas:**

- Requirement analysis and development of Integration flows for various financial file formats for validation and transaction processing.
- Analysis and implementation of Basic Authentication for SOAP web services
- Managing 10 non-production environments and production environment for the program
- Requirement analysis from bank contact management system to design a unique generic reporting solution
- Performance tuning of file processing to increase the transactions per second (TPS) and high volume concurrent file processing using Eclipse MAT and JProfiler
- Development of Jasper reports to generate financial reports through Spring batch framework

#### **Accomplishments:**

- Represented overall integration module from TCS to gather and understand Bank's integration requirements and developed key solutions
- Understanding of Scrum Agile framework and principles was appreciated by the client

### **Project - Renovation of Banking Systems (ROBAS)**

**Period** - Mar'18 till Apr'18

**Work Location and Role** - Bengaluru, India as Designer

**Client** – Reserve Bank of Australia

**Employer** – Tata Consultancy Services

#### **Key Result Areas:**

- Requirement analysis and development of base integration components and workflows
- Development and set up of GIT repository structure and delivery framework
- Preparation of Interface Specification Document template

#### **Accomplishments:**

- Developed the offshore-on-site delivery framework for banking components
- Created baseline for integration components which was used as a model for other integration components

### **Project - Renovation of Banking Systems (ROBAS)**

**Period** - Mar'17 to Feb'18

**Work Location and Role** - Sydney, Australia as Designer

**Client** – Reserve Bank of Australia

**Employer** – Tata Consultancy Services

#### **Key Result Areas:**

- Development of customer specific deployment script suite to install and deploy various TCS BaNCS products
- Design and development of Integration solutions to integrate TCS BaNCS with other on premise applications
- Design and implementation of file processing validation engine and reporting framework
- Development of High Availability framework for TCS BaNCS Service Integrator
- Performance analysis of Oracle UCP and HikariCP database connection pool implementations for high volume transaction processing
- Development of an in house utility to generate PDF report from Jira user stories using REST web services
- Design and development of HP TRIM adapter to archive financial reports generated by TCS BaNCS

#### **Accomplishments:**

- Implementation of Jira utility reduced the reporting effort of Jira user stories

- Key person to design, develop and co-ordinate the overall integration between TCS BaNCS and Bank's on premise applications
- Implemented High Availability of BaNCS integration nodes across primary and disaster recovery sites to achieve automatic load balancing and failover management

### **Project - Bank Yahav Core Banking Implementation**

**Period** - Nov'16 – Feb'17

**Work Location and Role** – Bengaluru, India as Designer

**Client** – Bank Yahav, Israel

**Employer** – Tata Consultancy Services

#### **Key Result Areas:**

- Design and development of Java Content Repository (JCR) adaptor using Java programming language and JCR API to store files in a content repository
- Development of shell script suite to deploy TCS BaNCS Service Integrator

#### **Accomplishments:**

- Concurrent processing capable and highly scalable JCR adaptor reduced the file processing bottleneck and provided a high throughput

### **Project – New Payments Platform**

**Period** - Sep'16 – Oct'16

**Work Location and Role** – Sydney, Australia as Senior Developer

**Client** – Credit Union Australia Limited

**Employer** – Tata Consultancy Services

#### **Key Result Areas:**

- Design and development of various SOAP web services for NPP adaptor. This also includes developing a framework to consume the web services hosted by Cuscal
- Design of Job scheduling and batch integration framework
- Requirement analysis and design of high availability of the NPP adaptor and the payment module
- Design of the database table partitioning strategies for improved performance

#### **Accomplishment:**

- Timely design of the NPP adaptor provided an added advantage to the customer

### **Project – TCS BaNCS Service Integrator Product Development**

**Period** - Jan'14 – Aug'16

**Work Location and Role** – Bangalore, India as Senior Developer

**Client** – Tata Consultancy Services – Financial Solutions

**Employer** – Tata Consultancy Services

#### **Key Result Areas:**

- Requirement analysis, design and development of JAXB based configuration management for Service Integrator modules
- Implementation of Maven dependency and build configuration model. This includes creation of a module based design of the core components

- Design and development of a JMX system monitoring engine to display real time statistics of Service Integrator threads, memory and database connection usage
- Development of TCS BaNCS Service Integrator workbench which enabled its users to create integration workflows from GUI console.
- Design, analysis and implementation of deduplication feature for incoming files in TCS BaNCS Service Integrator to reduce space consumption
- Development and orchestration of Apache CXF web services in TCS BaNCS Service Integrator using Java
- SonarQube and Fortify code analysis and code standardization

#### **Accomplishment:**

- Implementation of JMX adaptor and GUI workbench was a value addition to the TCS BaNCS Service Integrator product

### **Project – TCS BaNCS Service Integrator Product Development**

**Period** - Dec'11 – Dec'13

**Work Location and Role** – Bangalore, India as Developer

**Client** – Tata Consultancy Services – Financial Solutions

**Employer** – Tata Consultancy Services

#### **Key Result Areas:**

- Requirement analysis, design, implementation of partitioning and sub-partitioning in TCS BaNCS Service Integrator product
- Requirement analysis, design and development of IBM Multi-instance MQ to TCS BaNCS Service Integrator
- Took trainings to TCS Financial Solution associates to build up their skills as part of Centre of Excellence team
- Design and development of HTTP, HTTPS and HTTP Proxy based communication adapter in TCS BaNCS Service Integrator using Java

#### **Accomplishment:**

- Implementation of partitioning and sub-partitioning in TCS BaNCS Service Integrator product provided performance benefits over the previous monolithic design

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### **FUNCTIONAL SKILL SET**

- Working knowledge of core banking product and different financial modules such as Account Management, Financial Accounting
- Knowledge of payment systems and different payment message types
- Knowledge of various SWIFT, ISO 20022 and Bloomberg message types
- Knowledge of General Ledger

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### **EDUCATION**

Bachelor of Technology in Computer Science and Engineering from West Bengal University of Technology, Kolkata in 2011.

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### **PERSONAL DETAILS**

Contact Address : Unit 91, 5-7 Beresford Road, Strathfield, Sydney, NSW, Australia 2135  
 Date of birth : 11<sup>th</sup> Dec 1989  
 Marital Status : Single