

# Mahesh Mohan

Java – Enterprise Development & Application Security

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## Career Objective

To work in an organisation that recognises the need for adapting to ever changing technology driven environment and to become a highly skilled professional by delivering the best of my creativity and skills

## Professional Synopsis

- > 4 years and 10 months of experience in Enterprise and Web Application Development
- > Primary domain expertise in Banking and Financial based applications
- > Extensive exposure to Application Security concepts including assessment and mitigation
- > Well proficient in Architecture Styles and Enterprise Integration Patterns
- > Working experience with Agile Methodologies and Practices such as Scrum, Continuous Integration, Continuous Delivery and Shift Left philosophy
- > Holds Oracle Certified Java Professional certification
- > Strong problem solving, troubleshooting & causal analysis skills

## Technical Forte

Operating System	Windows, Unix, macOS
Programming Languages	C, C++, Java
Frameworks	Servlets/JSP, Struts, Spring MVC, AOP, Security, Boot, Batch
Data Technologies	SQL, PLSQL, myBatis, Hibernate, JPA-JTA
Web Technologies	HTML, CSS, JavaScript, jQuery, Dojo, Bootstrap, Angular JS
DevOps Technologies	ANT, IVY, Gradle, GIT, JFrog, Jenkins, UrbanCode Deploy
Tools	Eclipse, SOAP UI, IBM WebSphere, Apache Tomcat, Oracle 12C, IBM AppScan Source, RSA Archer, Telerik Fiddler, Burp Suite

## Employment Summary

IT Analyst at TATA Consultancy Services, Bangalore

Jan 2014 – Till Date

- > As Technical Lead in VAPT Crew for PNC Financial Services Inc.
- > As Module Lead in Centralized Entitlements for PNC Financial Services Inc.
- > As Senior Java Developer in Credit Management for PNC Financial Services Inc.
- > As Software Programmer in PINACLE Portal for PNC Financial Services Inc.

## Educational Qualification

Bachelor of Engineering, Sri Krishna College of Technology, Coimbatore

June 2009 – April 2013

Majors: Electronics and Communication | Aggregate: 8.07

Higher Secondary, Lisieux Matriculation Higher Secondary School, Coimbatore

June 2008 – April 2009

Majors: Computer Science | Aggregate: 9.02

High School, Lisieux Matriculation Higher Secondary School, Coimbatore

June 2006 – April 2007

Aggregate: 9.13



## Personal Details

Place: Bangalore, India

Date of Birth: 18-Feb-1992

Father's Name: Mohan Rao

Nationality: Indian

Gender: Male

## Primary Skills

Java/J2EE

Servlets & JSP

Spring MVC

myBatis ORM

Cyber Security

Angular JS & Bootstrap

RESTful & SOAP

## Behavioural Traits

Customer Centricity

Leadership Skills Expertise

Pivotal Interpersonal Skills

Intellectual Curiosity

Conceptual Thinker

## Professional Awards

Star of the Quarter  
Nov 2017

Star of the Month  
Aug 2017 & Mar 2018

Best Team  
Jan 2016 & Feb 2018

Star Team  
Jan 2016

On the Spot Recognition  
Jan 2015, Apr, Oct, 2016  
and Dec 2017

## Detailed Project Experience

### Project : PINACLE VAPT Crew

Period	Jan 2017 – Till Date
Client Name	PNC Financial Services Inc.
Role	Technical Lead
Project Description	<ul style="list-style-type: none"><li>&gt; VAPT is designed to address the vulnerabilities and threats that lead to the theft of sensitive financial data such as credit card information, product IP, customer lists etc., identified in the applications used by the PNC Lines of business that administer and support multiple stakeholders</li><li>&gt; Proactively identify potential vulnerabilities across the 35+ suite of PINACLE's Corporate Banking applications and also partner with Ethical Hacking Team for mitigating the vulnerabilities identified from SAST (Static Application Security Testing), DAST (Dynamic Application Testing), IAST (Interactive Application Security Testing) and Penetration Testing within the stipulated timeline</li></ul>
Responsibilities	<ul style="list-style-type: none"><li>&gt; Lead the development and testing tasks for a 11 Member Cross-Location Crew</li><li>&gt; Established the Crew as a Cyber Security front-line for the entire PINACLE suite of applications comprising of 9 different active development Crews and 42 Developers</li><li>&gt; Handled Threat Modeling of the new Microservice architecture based 5M to 50M targeted Corporate Banking offering called Commercial Experience</li><li>&gt; Involved in major application security enhancements using Spring framework security module</li><li>&gt; Designed and developed a customized LDAP Authentication API that can be plugged easily into any Web Application to provide a robust Authentication mechanism</li><li>&gt; Designed and developed customized SAML based Single Sign-On Authentication components for couple of the third-party vendor provided Service Modules</li><li>&gt; Enforced Safe and Secure coding practices for PINACLE Wing by partnering with DevOps team</li><li>&gt; Prepared Use Case scenarios with possible remediations for vulnerabilities and cascaded the knowledge to other Crews</li></ul>
Languages & Technologies	Java, J2EE, Servlets, JSP, Struts 2, Spring MVC, Spring Security, Sprint Boot, myBatis, Apache POI, LDAP, SOAP and RESTful WebServices
Tools & Specialized Software	Eclipse, GIT, Artifactory, Jenkins, UrbanCode Deploy, ANT, IVY, Gradle, Fiddler, IBM Websphere Application Server, IBM AppScan Source Security Testing, Dynatrace, Fiddler, Burp Suite, Zed Access Proxy, Contrast IAST Tool, CAST Dashboard, SonarQube, VersionOne

### Project : Centralized Entitlements

Period	Apr 2016 – Jan 2017
Client Name	PNC Financial Services Inc.
Role	Module Lead
Project Description	<ul style="list-style-type: none"><li>&gt; Centralized Entitlements is designed to facilitate a Unified Administration Experience across 35 different Service Modules within the PINACLE suite</li><li>&gt; Design and Develop a Real-time Module / Utility Centralized Repository that makes the operator entitlements, status information and roles available to Portal and appropriate Service Modules.</li><li>&gt; The key features of the project include Revamped and Improvised Secondary Approval (2OA) process, Ability to copy entitlements at both operator and role level and real-time push of any entitlement change for both home-grown modules and the vendor modules</li><li>&gt; Provide a variety of Entitlement, Audit and Summary reports</li></ul>

## Responsibilities

- > Lead the full-fledged design and development of Secondary Approval Implementation in PINACLE Portal and Centralized Entitlements by a 4-member team
- > Implemented the Solicited type, SAML Post Binding based Single Sign-On Authentication for the Centralized Entitlements Application
- > Implemented Spring Security, CSRF, LDAP interfacing, Token based two-factor Authentication, Security Headers, Global Error handling, Timeout and Single Logout capabilities
- > Improved Performance of the application by 32% based on the real-time end user Feedback
- > Developed Bootstrap and Angular JS based UI screens for Secondary Approval functionalities, and also handled the core UI components for Routing, Security, Modal Window, Dirty Forms

## Languages & Technologies

Java, J2EE, Spring MVC, Spring Security, Spring AOP, myBatis, Liquibase, Bootstrap, Angular JS, Spring JMS, Spring Integration, SOAP and RESTful WebServices

## Tools & Specialized Software

Eclipse, IntelliJ IDEA, GIT, Artifactory, Jenkins, UrbanCode Deploy, Gradle, Fiddler, IBM Websphere Application Server, Dynatrace Application Performance Management, IBM Tealeaf and Trusteer

## Project : Business Credit Management

Period Oct 2015 – Apr 2016

Client Name PNC Financial Services Inc.

Role Senior Developer

## Project Description

- > Integrate the user experience of Commercial Lending clients calling the PNC Client Care to initiate transactions and Asset-Based Lending (ABL) clients using the legacy StuckyNet Link system into a unified seamless user experience providing real time information on loans and commitments
- > Enable clients to evaluate their lending needs and manage their borrowing activities more efficiently by integrating with Advanced Commercial Banking System (ACBS®) system
- > Make real-time payments on loan invoices and commitment fees, make loan principal curtailments and request advances to receive the funds immediately
- > Upload and manage collateral information to provide borrowing base reports in connection with the lending relationship

## Responsibilities

- > Implemented File Upload capability by integrating with Trend Micro Anti-Virus for data integrity, parsing it using Apache POI, persisting into the database and notifying Transaction Management system through IBM Message Queue
- > Migrated the application from Java 6 to Java 7 and WAS 7 to WAS 8.5 by rewriting many of the core business logic
- > Improved the application's security by implementing a custom Exclusive CSRF Protection, Cross Site Scripting filter and JSR based annotation driven first level of input validation
- > Moved the form submit calls to light weight ajax requests for simple status fetching transactions in order to improve the performance of the application
- > Migrated the Service Provider from Unsolicited to Solicited based Encrypted SAML Post Binding Single Sign On integration with the Identity Provider
- > Involved in software development life cycle - Requirements gathering, Analysis, Detail design, Development and implementation of the system
- > Involved in writing SQL queries and modifications to existing SQL queries to optimize the Performance of the Application

## Languages & Technologies

Java, J2EE, Spring MVC, Spring Security, Spring JMS, Thymeleaf, myBatis, jQuery, Ajax

## Tools & Specialized Software

Eclipse, Jenkins, SVN, ANT, IVY, IBM WebSphere Application Server, IBM Message Queue, Dynatrace Application Performance Management, Trend Micro Anti-Virus Proxy Scan

## Project : PINACLE Portal Development

Period	Mar 2014 – Sep 2015
Client Name	PNC Financial Services Inc.
Role	Software Programmer
Project	<ul style="list-style-type: none"><li>&gt; PINACLE is PNC's top-rated corporate online banking portal delivering a single and customizable access point for all Corporate Banking servicing capabilities</li><li>&gt; Portal and IDP applications integrates with 35 other Service Provider applications providing a seamless and unified user experience</li><li>&gt; Identity Provider, which is strongly built using Spring Security, is responsible for Authentication, Authorization, Single Sign On and Single Sign Out.</li><li>&gt; Portal, which is built using Struts and Spring, forms the foundation of entire PINACLE, managing the entitlements, brands, etc.</li></ul>
Responsibilities	<ul style="list-style-type: none"><li>&gt; Involved in implementation of Account Service Matrix of the Bank Side Administration that can configure companies with their accounts and services</li><li>&gt; Implemented Multi Factor Authentication using Security Questions by integrating with the RSA system that evaluates the Risk Score using contextual access policies and ensures the authenticity of logged in user</li><li>&gt; Designed and implemented Profanity Check for the Multi Factor Authentication system</li><li>&gt; Involved in implementation of Inter-site Transfer Servlet (ITS) for routing between various Service Provider modules and integrate that with Access Decision Voter pattern</li><li>&gt; Remediation of Cross Browser defects across various latest browsers by upgrading DHTML, Dojo and jQuery as necessary</li><li>&gt; Implemented dynamically detail level configurable log4j based administration page</li><li>&gt; Developed a Proof of Concept to upgrade a part of the application from Struts 1 to 2 series</li></ul>
Languages & Technologies	Java, Servlets, JSP, JSTL, Struts, Spring MVC, Spring Security, myBatis, jQuery, HTML5, CSS3, Ajax, Dojo, DHTML
Tools & Specialized Software	Eclipse, Jenkins, SVN, ANT, IVY, Apache Archiva, SOAP UI, IBM WebSphere Application Server, IBM HTTP Server and Dynatrace Application Performance Management

## Declaration

I hereby swear that all the above furnished information is true to the best of my knowledge and I bear the responsibilities for the correctness of the aforementioned particulars.

Place :

Date :

(Mahesh Mohan)