## VIJAYAKUMAR CHINNASAMY

## IAM Security Specialist

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## Professional Summary

* Having 13 years of total IT experience of which 5 years in Identity and Access Management (IAM) solution.
* Extensively worked in building OAuth2, OIDC (OpenID Connect), SAML2, OWASP (Open web application security project), SSO (Single Sign-On) and PCI DSS (Payment Card Industry Data Security Standard) using Okta, IBM Security Access Manager (ISAM).
* Having sound knowledge on SailPoint IdentityIQ, ForgeRock, AWS (Amazon web services) and Azure.
* Specialist in develop, investigate and review application security. Experts in application security tools such as web inspector, Burp Suite, HP fortify software security.
* Strong knowledge of J2EE application model to develop web-based solutions using Spring Framework (Core, MVC, AOP, Spring boot, REST, Data access), Hibernate, Web services (SOAP, RESTful), Struts, JPA, JSON, XML and Oracle.
* Hands on working experience in Jenkins, Sonar, Continuous Build and deployment (CI/CD) tools.
* Experience in various development methodologies Agile, Scum, Test driven development.
* Experience in coordinating with the multiple application teams with multiple vendor team for requirement gathering, status updates and issue handling. Proven ability to work in both independent and team environment.

## Employment Summary

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| **Organization** | **Designation** | **Duration** |
| Tech Mahindra Ltd | Associate Technical Architect | Apr 11 - Till Date |
| Magna infotech Pvt. Ltd | Senior Software Engineer | Nov 09 - Apr 11 |
| Collabera Solutions Pvt Ltd | Senior Software Engineer | Nov 08 - May 09 |
| vMoksha Technologies Pvt Ltd | Software Engineer | Nov 06 - Oct 08 |

## Technical Skills

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| Source | Skills |
| **Programming Languages** | JAVA 7/8 |
| **Security Products** | IBM Security Access Manager (ISAM) v7.0/v9.0, Okta, SailPoint IdentityIQ (IIQ), ForgeRock, SAML 2.0, OAuth 2.0, OpenID Connect, OWASP, SSO, PCI DSS, IBM Tivoli Access Manager (TAM), IBM Security Directory Server (ISDS), IBM QRadar. |
| **Frameworks** | Spring framework (Core, MVC, AOP, Spring boot, REST, Data access), Hibernate, Web services (SOAP, Restful) |
| **Web Technologies** | Servlet, JSP, Javascript, JQuery, JSON, Ajax, XML, HTML5, CSS and Angular JS |
| **Application/Web Server** | IBM WebSphere Application Server, Oracle WebLogic, Apache Tomcat, JBoss, Glassfish, IBM HTTP Server |
| **Databases** | Oracle 11g, Mongo DB, DB2, MS-SQL server |
| **Domain Knowledge** | Identity and Access Management, Telecom, Finance, Web Access Management, Banking, Media & Entertainment |
| **Case tools** | CVS, VSS, SVN, Git |
| **Build development** | Maven, ANT, Gradle. |
| **Testing tools** | Burp suite, Junit, Power Mockito, JMeter and SOAP UI. |
| **Tools & Utilities** | IBM Rational Application Developer v8.5/v9.6, Eclipse, Spring tool suite, UML, Putty, Soap UI, Jenkins, JMeter, HP fortify, Rational Team Concert (JAZZ), Veracode, Sonar Qube and AgileCraft. |

## Education

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| Degree | **University** | **Tenure** |
| Master of Science (Computer Science) | Bharathidasan university | 1998 - 2000 |
| Bachelor of Science (Computer Science) | Bharathidasan university | 1995 - 1998 |

## Certifications

* Okta certified professional
* Microsoft certified Azure fundamentals
* Oracle Certified Professional for Java SE 6 Programmer.
* Oracle Certified Expert for Java Platform, EE 6 Web Component Developer.
* Certified SAFe 4 Agilist

## Project Details

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| **Project Name** | HIAM |
| **Client** | AT&T Inc. |
| **Role** | IAM developer (Tech Mahindra (Americas) Inc) |
| **Duration** | October 2018 to till-now |
| **Team size** | 18 |
| **Functional Skills** | IBM Security Access Manager (ISAM 9.0.6), IBM Security Directory Server (ISDS), Tomcat 8.5, JDK 1.8, Spring 5.0, Hibernate 5.0, Restful web services, Oracle 11g, Maven, Git, IBM QRadar, Veracode, Swagger |

HIAM (Halo Identity and Access Management) provides Identity and Access Management support for various applications hosted within or external to CSO (Chief Security Office). CSO supports multiple independent IAM framework for various customer base such as Consumer (for external customers/subscribers), Enterprise (framework for internal employees/contractors).

HIAM provides secure and centralized access management to meet the needs of high volume and high availability enterprise applications. It supports authentication for multiple customer identity types, tracks and manages their authorization privileges on protected applications.

**Responsibilities**

As an IAM developer, responsible for the following:

* Secure Development of External Authentication Interface (EAI) applications to prevent critical security vulnerabilities that can lead to data loss.
* Secure use of OWASP 10 vulnerabilities to avoid any security risk in the code which includes Sensitive Data Exposure, Broken Authentication, Cross-Site Scripting (XSS), Broken Access Control etc.
* Develop, test and implement federation management solution (SAML2.0 / OpenID Connect).
* Development of Authentication plugins for OAuth2.0 grant types such as Implicit flow, Authorization Code.
* Develop EAI authentication mechanism using AAC module (Advanced access control).
* Creating client, access policy, mapping rules, Geo-tagging and authentication mechanism for OIDC flow.
* Creating API and invoking from EAI for the 2FA, DMA, etc., flows.

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| **Project Name** | ID Services |
| **Client** | Aetna Inc. |
| **Role** | IAM developer (Tech Mahindra (Americas) Inc) |
| **Duration** | April 2018 to September 2018 |
| **Team size** | 12 |
| **Functional Skills** | JDK 1.6, Okta, Spring, Restful webservices, Tomcat, Maven |

ID services enables reusable digital identity managed by the user, data on devices, delivered via Trust providers and accessed through a network of relaying parties. This enables the ability for Relying parties to quickly and seamlessly verify the identity of an

Individual who has an established. reusable digital identity, Ability to received precise data according to needs, at desired assurance level.

**Responsibilities**

As an IAM developer, responsible for the following:

* Application onboarding in Okta.
* Installing Okta’s Lightweight agent to integrate with Active Directory, LDAP.
* Setting up SAML, OIDC applications in Okta
* Creating APIs using Restful webservices and invoking from Okta.
* Production support

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| **Project Name** | tGuard Security |
| **Client** | AT&T Inc. |
| **Role** | IAM developer (Tech Mahindra (Americas) Inc) |
| **Duration** | January 2016 to March 2018 |
| **Team size** | 8 |
| **Functional Skills** | IBM Tivoli Access Manager, JDK1.6, Struts 2.x, Restful webservice, IBM WebSphere, HP fortify software security center and Oracle 11g, SVN, QRadar. |

CSO (Chief Security Organization) tGuard is an important vertical client applications Security Platforms, Services and Engineering. tGuard services are broadly classified into three categories, (a) Web-based Applications. (b) Native Client Applications. (c) IP-TV.

**Responsibilities**

As an IAM developer, responsible for the following:

* Secure use of Payment Card Industry Data Security Standard (PCI DSS) compliance in adherence to the set of policies and procedures developed to protect credit, debit and cash card transactions and prevent the misuse of cardholders' personal information.
* Demonstrated the ability to develop secure applications to ensure information systems and application security policies and procedures are followed in consideration to the Assurance Vulnerability management.
* Develop and support Single Sign On/Cross Domain Single Sign on authentication for enterprise and consumer-based applications.

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| **Project Name** | Contact center dashboard |
| **Client** | Morgan Stanley, USA |
| **Role** | Senior Software Engineer (Tech Mahindra (Americas) Inc) |
| **Duration** | March 2015 to December 2015 |
| **Team Size** | 9 |
| **Functional Skills** | Java 6, Servlet, JSP, Spring, Maven, Oracle, SLF4j,UML, Splunk |

Dashboards are being created for showing the real time status of the MSMW contact center. These dashboards shall help business and IT to proactively take measured to resolve issue.

Dashboard shall help to visualize the real-time health of the contact center with components such as Genesys, Connect, IVR and services. Powerful search, analysis and visualization capabilities through the dashboard will empower IT users to identify and troubleshoot issues.

**Responsibilities**

As a Team member**,** responsible for the following:

* Performed complete application life cycle function from conception to final release to users including design, analysis, implementation, testing, deployment and maintenance.
* Incorporating Spring Aspect to support logging instrumentation for IVR and connect application.
* Creating Utility application to collect data from the Genesys Stat server and log the details in log file.
* Created couple of POC such as to check the application health check, scheduling job using spring-quartz scheduler.
* Designed Use-Case Diagrams, Class Diagrams, Sequence Diagrams, and Collaboration Diagrams.

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| **Project Name** | ICE Development |
| **Client** | MGM Resorts international, USA |
| **Role** | Senior Software Engineer (Tech Mahindra Ltd) |
| **Duration** | Nov 2013 to Sept 2014 |
| **Team Size** | 11 |
| **Functional Skills** | Java 6, RESTful web service, JSON, JavaScript, Jquery, Ajax, maven, Tomcat and Oracle 11g |

ICE is a reservation system designed for the MGM Resorts Corporate Contact Center and Casino Marketing departments. Rooms, Shows and Restaurant reservations may now all be booked using one system. ICE will also allow agents to enroll M life Customers during the reservation process.

**Responsibilities**

As a Team member, responsible for the following:

* Involved to UI enhancement in ICE application.
* Interact with the business analyst to discuss and understand the business rules and flow of the application for New Business.
* Prepared the Technical Spec document and presented it to the technical architecture team for approval.
* Continuous integration tool Jenkins and code quality tool sonar setups.

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| **Project Name** | Apple-ETS-DS |
| **Client** | Apple Inc, USA |
| **Role** | Senior Software Engineer (Tech Mahindra Ltd) |
| **Duration** | May 2011 to Oct 2013 |
| **Team Size** | 14 |
| **Functional Skills** | Java 6, JUnit, JSP, Servlet, EJB, Ant, Log4j, QRadar, SVN, Splunk and Oracle 11g |

Directory Service (DS) is an enhancement project. Directory Services is a central repository for Apple person-related information. All the applications that use Directory Services contain consistent and centrally updated person information. Directory Services also provides authentication services through the use of Apple Connect and Open Directory. It is accessed by different types of users e.g. Employees, Apple contractor, on-site vendors, customers, developers etc. Tech Mahindra is primarily working on enhancing performance and maintainability of DS.DS Admin UI is a new tool to administrate DS run time environment. It has many tools useful for quick debugging of the runtime environment.

**Responsibilities**

As a Team member, responsible for the following:

* Involved in High Security Application (HSA), adding customer PODs (CS3), implementing batch-jobs, apple pin for vendor and reseller.
* Development DS API’s and DSPF.
* Development of the DS-Utils functionality, Unit testing of the DS.
* Splunk all the generated events for analyze the events status.
* Participating in analyzing the functional requirements and understanding the Business process.

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| **Project Name:** | Store Vision Platform |
| **Client** | Wells Fargo, USA |
| **Role** | Senior Software Engineer (Magna infotech Pvt. Ltd) |
| **Duration** | Nov 2009 to April 2011 |
| **Team Size** | 32 |
| **Functional Skills** | Core Java, JSP, Struts, JSTL, Tomcat 6.0, SVN and SQL server. Angular JS. |

SVP is an online, web-based application that provides the major services for the Banker in performing sales and servicing for the customer: Customer setup and maintenance; Account setup and maintenance; Risk Analysis of new customers; Card Services; and Sales. Wealth, Retirement and Trust Technology (WRTT) also uses SVP for Customer setup and maintenance

**Responsibilities**

As a team member, was responsible for

* Involved in Individual Retirement Account (IRA) contribution and distribution
* Migration of User profile and location parameter
* Involved in location parameter and user profile migration.
* Code reviews and guidance to team members.
* Involved in all the phases of SDLC including requirement gathering, design, analysis. development and testing.

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| **Project Name:** | ActionAid |
| **Client** | ActionAid |
| **Role** | Team Member (Collabera Solutions Pvt Ltd) |
| **Duration** | Nov 2008 to April 2009 |
| **Team Size** | 4 |
| **Functional Skills** | Jdk1.4, Struts1.2, Hibernate, Spring2.5, Oracle 8i ,SVN and Jboss4.2.2 |

A toolkit to manage websites without adding the burden of technology and jargons on its users. ActionAid for simplicity divides the users of the system into 2 types. Global Administrators: Top level management of users as well as sites under the system. Site Administrators: Managers of site(s) that are assigned to them.

**Responsibilities**

As a team member, was responsible for

* Developed user interface using Extensive MVC view support
* Wrote Controllers to handle the requests from User Interface. Used appropriate Controllers depending on the business requirements
* Involved in Application deployment activities

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| **Project Name:** | Environmental Survey Application |
| **Client** | Edwards, U.K. |
| **Role** | Team Member (Vmoksha Technologies Pvt Ltd) |
| **Duration** | Feb 2008 to Oct 2008 |
| **Team Size** | 17 |
| **Functional Skills** | Jdk1.4, Servlet, JSP, EJB, Log4J, ANT, Glassfish 3.0 and MS SQL server |

The Environmental Survey Application allows Edwards businesses to collect and analyze environmental performance data from approximately 700 sites around the world. This activity also provides a site-based tool for environmental auditing and review, driving planning, prioritization and continuous improvements at local and corporate levels

**Responsibilities**

As a team member, was responsible for

* Involved in developing the UI
* Written Business logic using Stateless Session Beans
* Involved in Maintenance and support for the Application.

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| **Project Name:** | Company Hierarchy Reference Server |
| **Client** | Hewlett Packard |
| **Role** | Team Member (Vmoksha Technologies Pvt Ltd) |
| **Duration** | Aug 2007 to Dec 2007 |
| **Team Size** | 15 |
| **Functional Skills** | Java, JSP, Struts,Ant,Log4J,JavaScript, MS SQL server 2005, SVN and Tomcat 5.0 |

Company Hierarchy reference server (CHRS) is a system of record for company hierarchy information. CHRS is not a customer facing application, rather customer facing applications use CHRS information and display the information through their tools.

The CHRS has the 5 types of process such as Company Identification process, Data preparation process, Monthly refresh process, Enhanced Hierarchy process, Add/Modify supplier Profile.

**Responsibilities**

As a developer, was responsible for

* Involved in the coding for Supplier Profile and file Archive
* Involved in the CR (Change Request) and Defect Fixing.

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| **Project Name:** | SmartBuy |
| **Client** | Hewlett Packard |
| **Role** | Team Member (Vmoksha Technologies Pvt Ltd) |
| **Duration** | Dec 2006 to July 2007 |
| **Team Size** | 34 |
| **Functional Skills** | Java, Servlet, JSP, Tomcat, SVN and Oracle8i |

SmartBuy, HP’s global online purchasing tool for Indirect goods and services provides you with a one-stop e-shopping system that automates the requisition to payment process. SmartBuy simplifies and streamlines the approval process, making it easier for you to submit purchase requisitions, and for managers to approve and manage the spending of those requests.

**Responsibilities**

As a developer, was responsible for

* Involved in developing purchase requisitions and approve module
* Involved in Coding and Unit Testing.