**Summary**

**Current Profile** – Lead Sofware Engineer /Solution architect
**Mobile** - 8588099708

**Total Exp** – 14+ years

**Functional Area** – Web and Mobile applications

**Responsibilities**

* Architect and build applications for the Web, iOS & Android platform
* Ensure the performance, quality, and responsiveness of applications
* Collaborate with a team to define, design, and ship new features
* Identify and correct bottlenecks and fix bugs
* Help maintain code quality, organization, and automation
* AWS Solution design, architect solutions with AWS components comprising of AWS S3 for Data lake, front end presentation layer based on Business needs
* Jenkins job
* Data Archiving
* Security / VPN / TLS 2.0 environment

**Skills**

* Solution Designing – Identify Business needs, prepare detailed data source diagrams from multiple data sources on varied hybrid Databases SQL and NO SQL DB-Postgre, Oracle, Dynamo DB, Mongo DB, and DB2
* Proficient with Objective-C & Swift for iOS and Java & Kotlin for Android
* Strong OOPs fundamental, Strong grasp of algorithms, and data structures.
* Experience with iOS frameworks such as Core Data, Core Animation, etc.
* Experience with offline storage, threading, and performance tuning
* Experience with Unit Testcase and UI Test Case
* Familiarity with RESTful APIs to connect iOS/Android applications to back-end services
* Understanding of Apple/Android’s design principles and interface guidelines
* Knowledge of low-level C-based libraries is preferred
* Experience with performance and memory tuning with tools.
* Familiarity with cloud message APIs and push notifications
* The knack for bench-marking and optimization
* Proficient understanding of code versioning tools (Git)
* Familiarity with continuous integration
* Experience with third-party libraries and APIs
* Solid understanding of the full web and mobile development life cycle
* Continuously Discover, Evaluate, and Implement New Technologies to Maximize Development Efficiency
* Build report Design Documents and Functional Design Documents
* Identify stakeholders from management, customers, sponsors, third parties / agencies for Enterprise reporting and PMO activities.
* Project Management - Initiation, Scope management, Project Control and Monitoring/Closing.
* Extensively worked on Spring JDBC , Spring Hibernate ORM and JPA
* Proficient in designing dyanamic web applications using HTML5 , CSS3 ,Javascript , jQuery,AJAX ,JSON with responsive web applications using Bootstrap.
* Knowledge of Angular 2/4 practices in commonly used modules and creating reusable components, pipes and filters.

**Additional Skills**

* Jenkins Experience
* Unit/UI test automation
* Experience with SDK development
* CI/CD pipeline and implementation planning
* Plan agile methodology, Kanban, Scrum or SAFE depending on project type

**OThER SkillS**

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| **Software Languages** | Android, Kotlin, Java, Swift, Objective C, C++, J2EE, Python, Scala, Javascript, Adobe Flash scrit MFC, C#, .NETTools and TechnologiesXcode |
| **Operating Systems** | Windows, Linux (Ubuntu, Fedora), Android, macOS High Sierra |
| **Front End Technologies** | HTML, CSS, JavaScript, Python, Adob e Professional |
| **Database** | Sql Lite3, Oracle 10g, Mongo DB |
| **Scripting Tool** | Linux and windows scripts |
| **Other Tools** | Plant UML, YAML, Hyper Terminal, RS232 Analyzer(GUI tool for Serial communication), Schematics and data sheets, Notepad++, CRO, Multi-meter, Sniffer( ZigBee testing), WireShark, Ubiqua etc., Hudson, Fortify,Visual Studio, atlassian confluence, Server side handling, Mobile and Web Technologies |
| **Version control** | GIT, SVN |
| **Development Tool** | IntelliJ, Jetbrains, Android Studio, Xcode9 and Xcode10,Cocoa pods, Android Studio, Net Beans, MFC and Visual.net studio, GCC compiler, Make-file, Eclipse |
| **Project Management** | JIRA, agile development (certified scrum master ), waterfall,process and quality management, administration and resource management IOS |
| **MS Office** | MS EXCEL, Word, Power Point, Visio, MS-Project |

**Work Experience**

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|  |  **Employer: Idemia Pvt Ltd** **Location: Noida, India** **Designation: Solution Architect** **Duration: Mar 2018 - Present** |

**Project** : **Biometric Enrollment and authentication, Citizen enrollment and authentication LATAM**

**Summary** : Biometric enrollment and authentication app is tablet based online platform for enrolling citizens of country based on identity card and biometrics of the user. User presents his identity number, the tablet reads all user details from the id card, then asks for fingerprint enrollment of at least 4 fingers of the user, followed by facial enrollment. The summary is presented before the user before enrollment is concluded, once the user confirms all the details are securely stored on the server. The users are offered various online services based on these enrollments, they can authenticate using any factor like pin, password, finger or face.

**Software /Tools** : Android Studio, Kotlin, Android, Postman, mongoDB, Eclipse

**Responsibilities**

* Responsible for analysis, architecture and modeling for Microservices driven environment
* Used spring MVC with Hibernate framework to build applications on server side
* Developed software in Android Studio using kotlin and studio IDE 3.6
* Creating android installer applications for generic apps based on third party SDK.
* Designed database mysql, oracle, for saving data of multiple applications.
* Implemented applications supporting different kinds of communication **servers**
* Developed **Authentication** based settings for different programmable parameters.
* Testing and debugging data communication between **client and Server.**
* **Bug Fixing analysis** with team and development according to tenders.
* Mentored the agile team. Attending daily scrum meetings as part of the project.
* worked on Spring JDBC , Spring Hibernate ORM and JPA

**Project** : **CloudCard,UK Gov**

**Summary** : Involved in development of SDK which provides strong credential management in terms of password, pin and biometrics. It is being used to verify the credentials in services for the popular UK gov, also known as ***Secure identity*** service platform. When the user tries to authenticate himself for access to certain online service the DACS(digital access control platform) routes the request to Secure identity cloud card. After successful authentication from this software user is able to access his / her services.

**Software /Tools** : Objective C, Swift, Android, Mysql, Oracle, PostGre, Eclipse

**Responsibilities**

* Perform function design along with wireframes
* Developed software in IOS (Objective C, macOS) using Xcode 10 IDE for macOS (**High Sierra** series)
* Creating iPhone installer applications for generic apps based on this SDK.
* Designed database mysql, postgre, oracle, coredaata for saving data of multiple applications.
* Implemented applications supporting different kinds of communication **servers**
* Developed **Authentication** based settings for different programmable parameters.
* Integrated **spring security** to validate the users
* Testing and debugging data communication between **client and Server.**
* **Bug Fixing** with team and development according to tenders.
* Mentored the agile team. Attending daily scrum meetings as part of the project. Have a good view of scrum engagements.

**Project** : **UK, Secure Identity Platform and Services**

**Summary** : Its a digital id government program in Netherlands which aims to provide secure identity to be used for public and private sectors. It is web oriented application which uses SAML schemes. Idemia operates as identity provider providing identity and authentication services as a secure identity provider. The application relies on NFC ID reading and remote enrolment. Citizens are issued a 2 factor authentication service on mobile device through cloud card sdk.

**Software /Tools**  : Swift, Objective C, Android, Mysql, Oracle, Eclipse

**Responsibilities**

* Work with Enterprise PMO to plan multi-year Project Charters / product roadmap with management and steering committee
* Developed software in IOS (Objective C, macOS) using Xcode 10 IDE for macOS (**High Sierra** series)
* NFC document reading using morpho e-card reader sdk.
* Integrating the cloud card sdk with customized and chosen authentication factor.
* Customer support and addressing queries.
* Managing the Hudson builds for end user deliveries
* Conducting knowledge session on morpho product specific features.
* Report and technical analysis

**Project** : **e-Contracting,DACS Platform**

**Summary** : Purpose of signing the non-disclosure agreements between different parties for financial institutions, by providing the paperless and secure way to sign the contract by different authorities. The complete electronic contract processes can be completed in all the sales channels, and can even combine several sales channels. Insurance agent and the client meet together in the insurance agency branch. Traveling insurance agent goes to the client’s residence to complete the contract, client purchases the contract fully on the internet. The platform also provides full digital provisioning of the client details and their requirements.

**Software /Tools** : Swift, Linux, mysql, apache tomcat, jdk, Web Technologies, JavaScript

**Responsibilities**

* Analysis of clients requirement and specification preparation
* Webview application development in android and IOS to display the DACS site for eContracting using mobile application
* Deployment for Javascript patch updates
* Created **DAO** classes to implement CRUD operations by using JDBC transactions
* Writing unit test cases for different application features
* Usage of restful / angular / springBoot
* Demonstrations to sales and external clients

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|  |  **Employer: Smartchip Pvt Ltd** **Location: Noida, India** **Designation: Lead Engineer/Technical Project Manager** **Duration: Apr 2014 – Mar 2018** |

**Project** : **Morpho RD Services/RDOnline**

**Summary** : Introduced by the UIDAI (India), to prevent the storage and replay of the biometric data in different aadhaar related transactions of authentication using fingerprint, pin and iris (optional).Morpho RD services addresses the solution to eliminate the use of the stored biometrics and provides additional public features for security of the transactions involving the morpho Fingerprint sensor. Every device is identified using a unique identifier allowing traceability, analytics and fraud management. The registered device of the service provider forms encrypted PID block before returning to the host application.

**Software /Tools** : Android, Morpho Biometric sdk, Java, JavaScript

**Responsibilities**

* Scripting the content of the website using javascript, design tools and liquid programming language.
* Uploading the SDK and other contents
* Writing the frequently asked questions content to the end consumers
* Providing the technical support by organizing the support desk
* Deploying the website through local and customized servers and VMs
* Involved in configuring the JNDI for database connection pooling (APACHE DBCP)

**Project** : **TrustWall (Pin, face,finger based enrollment and authentication) for SBI**

Summary : An identity establishing application wherein the users can onboard themselves using their ekYC details, as well as their face, pin, fingerprints. It behaves like an authenticator while accessing different service providers like yatra or other e-commerce sites login. Consumers can subscribe/unsubscribe to services, update personal data and manage different levels of security. It uses IPV for identity proofing of the existing customers, it helps to quickly populate the details of the users.

Software /Tools : Swift, Android, Java, JavaScript, web services, biometric search engines

**Responsibilities**

* Designed EDI integration with customers and suppliers for Order Management to receive sales orders for biometric devices
* Development of onboarding module for a new user including his demographic and biometric details
* Creating workflow manager for managing 4 levels of security
* Integration of payment apis to quick checkout and payment.
* HCE module implementation and handling different NFC cards for token based mobile payments
* Unit testing and build procedures

**Project** : **BankID Application, Norway Bank**

Summary : Aimed to renew the old smartcard images of customers of the bank with the newer ones

Software /Tools : Swift, Objective C, Android, Java, Apache Tomcat, JavaScript, html

**Responsibilities**

* Prepare project status reports for stakeholders, burn down charts and used tools like JIRA , Confluence, OnTime and Version one
* Development of consumer application within estimated timelines
* Deployment of bankid server for accessing different webservices for facial templates upload and matching.
* Unit testing and build procedures
* Documentation of different apis and modules
* Conducting daily scrums, maintaining the sprint velocity as per project estimations

**Project** : **AEPS Application, RBL Bank**

**Summary** : Provide the banking kiosk to perform deposit, withdrawal, fund transfer and mini statement using the AEPS (aadhaar enabled payment system).

**Software /Tools** : Swift, android, biometric sdk, uidai aadhar rest services for authentications

**Responsibilities**

* Development of microATM application involving agent onboarding and multiple banking transaction like save, withdraw, fund transfer and account balance.
* Unit testing and build procedures.
* Deployment and timely deliveries

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|  |  **Employer: SAGEM India Pvt Ltd** **Location: Noida, India** **Designation: R&D Engineer/ Lead Software Engineer** **Duration: May2013 – Mar2014** |

**Project** : **Mobile boarding pass and checkin application, AirAsia**

**Summary** : Used to generate the boarding pass using your mobile devices, and self checkin process using this mobile application

**Software /Tools** : Swift, objective C, android, zxssing, rest apis, json,Dictionaries

**Responsibilities**

* Development of the consumer application for AirAsia customers as per requirements.
* Unit testing and build procedures.
* Deployment and timely deliveries

**Project** : **PDS(public distribution system ) biometric application**

**Summary** : Provide the aadhaar based login to the Punjab ration consumers

**Software /Tools** : Swift, objective C, android, rest api, biometrics

**Responsibilities**

* Development of the consumer application for AirAsia customers as per requirements.
* Unit testing and build procedures.
* Deployment and timely deliveries

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|  |  **Employer: Samsung India Pvt Ltd** **Location: Noida, India** **Designation: R&D Engineer/ Sr. Software Engineer** **Duration: July 2006– May2013** |

**Project** : **DTV application development**

**Summary** : Development of JavaScript, flash based application for Smart TV using their diamond platform

provided by Samsung

**Software /Tools** : Samsung sdk, diamond platform, JavaScript, adobe flash professional

**Responsibilities**

* Development of the consumer applications for Samsung DTV customers as per requirements.
* Unit testing and build procedures.
* Deployment and timely deliveries

**Project** : **Color management software, calibration (embedded systems)**

**Summary** : Calibration software involved development of the device drivers for calibration of the RGB

values of the monitor and setting the optimum values

**Software /Tools** : MFC, C#, embedded tools

**Responsibilities**

* Development of device drivers for color calibration of the monitor using Samsung calibrator tool.
* Updating and deploying the firmware patches.
* Unit testing and bug fixing

**Project** : **Thin Client system**

**Summary** : A thin client is a lightweight [computer](https://en.wikipedia.org/wiki/Computer) that has been optimized for [establishing a remote connection](https://en.wikipedia.org/wiki/Remote_desktop) with a server-based computing environment. The server does most of the work, which can include launching software programs, crunching numbers, and storing data. This contrasts with a [fat client](https://en.wikipedia.org/wiki/Fat_client) or a conventional [personal computer](https://en.wikipedia.org/wiki/Personal_computer); the former is also intended for working in a client–server model but has significant local processing power

**Software /Tools** : MFC Hex tools for Thin client flash, command line tools

**Responsibilities**

* Firmware Writing and Verification according to Tender Requirements.
* Developed logics for FTP file and developed protocol for File systems.
* Implemented logic for schedule based data downloading and uploading.
* Developed Logic for on demand data download using SMS gateway and Structure of data text file at FTP.
* Designed different SMS format for on demand download, on demand transparent connection and on demand file sending on FTP.
* Used Static IP- TCP IP connection for transparent data exchange between TCP server and Device.
* Involved in Debugging and testing the application.
* Developed Firmware of meter downloading logic and data uploading logic.
* Product demonstration to Power Grid Corporation India.
* Responsible to change the product platform from controller to Linux.
* Development of end to end downloading software with software team.
* Created logic for remote OTA (Over The air) Firmware up gradation of DCU.
* Database Management and Configuration protocol designing.
* Test Planning, Testing, Debugging.
* Collected information and documents needed to make tests for new features.
* Creating Executable Files in C, C++using Turbo C. These meter reading instruments are able to connect with the meter through RS232 port and optical port. Downloading and uploading Meter Data.
* Designed data text file format for uploading data to BCS.
* Developed protocol for uploading the data text file to PC via serial port.
* Created Test mode to calculate difference of energy of meter for a specific time.
* Implemented Protocol for Authentication of CMRI by BCS (Base computer station).
* Developed logic for fast data uploading to BCS (Base computer station).
* Created executable files to send token data to prepaid meters.
* Bug Fixing according to feedback given by the testing team
* Used Agile-Scrum methodology for software development

**Project 4**  : **Wi-Fi-Based Modem**

Summary : One WI-FI master router and multiple WIFI based Modems which connect with Static IP by AT command set and download Meter Data remotely.

Software /Tools : C, High Performance Embedded Workbench, Hercules, and Serial Port Monitor, WI-FI (WT8266-s1).

**Responsibilities**

* Firmware development and debugging.
* Scheme Designing, Test Planner, Testing, Debugging.
* Wrote edited and maintained manual test base.
* Development of end to end downloading software with software team.
* Responsible for developing the code, ensuring the coding standards and architectural are met and assisting the offshore developers.
* Designed UI Layouts and Software for communication with BLE.
* Implemented logic for Bluetooth connection sharing between two activities.
* Hands on experience on Protocol for Recharging as well as reading Energy Meters.
* Involved in Android App Integration with Web Service.
* Designed Database in SQLite-3.
* HandledSQLite-3 database schema, tables, and functions.
* Handling the request for change/modifications in application and service request that include bug fixes, investigation and enhancement.
* Conducted code reviews against coding standards and made sure the best practices are maintained in development process.
* Involved in Code review, Unit testing and bug fixing.
* Used Agile - SCRUM for software development

**Other Projects**

* TrustID
* Traffic information and challan management app for Maharastra.
* ITAU Bank – Mobile kyc Application for Brazil
* Aadhaar Print application
* 2FA authentication and integration platform
* Secure Launcher for mobile
* Id card issuance application
* NAR bank biometric payment system – POC
* NZ – ASB Bank mobile application
* Your BankID
* Portable Aadhaar NFC application
* E-Trust Match on card application

**PERSONAL DETAILS**

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| **Degree Type** | **School/ University** | **Year of Passing** | **Location** |
| *MS, Software Systems* | *Birla Institute of Technology**and Science* | *2012* | *Pilani, Rajasthan* |
| *B.Tech, Computer Science**and Engineering* | *IIT-BHU, Varanasi* | *2006* | *Varanasi, UP* |
| *12th Class* | *Modern School, Kota(Rajasthan)* | *2000* | *Kota, Rajasthan* |
| *10th Class* | *Emmanuel Mission Senior Secondary School*  | *1998* | *Kota, Rajasthan* |