Curriculum Vitae

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Experience Highlights

- 13+ years of experience in Software Architecture design and development.
- Defining Application architecture in line with Enterprise architecture for RFPs.
- Key player (**Digital Architect** and **Technical Product Owner**) in automation (IIOT) of bio-process for leading science and technology company in healthcare, life science and performance materials.
- **Software Architect** for Class C medical device to control Continuous glucose monitoring (CGM) device and insulin pump (continuous subcutaneous insulin infusion therapy CSII)
- Certified SAFe® 4 Practitioner.(valid till 31-May-2019).
- Over 10+ years of experience in Agile software development.
- Part of team that successfully implemented agile with Good automated manufacturing practice (GAMP).
- Full stack and Mobile (Android) software development experience.
- Experience in people development and engagement.
- Diversity of experience, worked for 4 years in South Korea and co-working with teams from Beijing,
 Germany, France & US.
- Work experience with customers in their leading domains (Samsung, Roche, Merck)
- GAMP, ISO 13485, IEC 62304, ISO 14971 knowledge.
- Experience with Polyglot architecture. First-hand experience in **Android** framework, **Micro services**, Client-Server modelling, Sensor Fusion, Wearables, NodeJS, **ReactJS**, **Redux**, **Springboot**.
- DevOps practitioner and familiar with CI/CD pipeline and AWS Services.
- Pursuing AWS Solution Architect Associate certification

Areas of Interest

Medical device software, Software development with GAMP, Internet of Things, Software and System Architecture, Solution Architecture.

Work History

From Date	To Date	Employer	Location	Designation
06-Jun-2016	Till date	Wipro Limited	Bangalore	Architect
23-Nov-2011	25-May-2016	NXP Semiconductors India Pvt Ltd	Bangalore	Technical Lead
17-Apr-2007	09-Nov-2011	LG Soft India Private Limited	Bangalore,	Senior Software
			Seoul	Engineer
23-May-2006	16-Apr-2007	RCS Technologies	Bangalore	Software Engineer

Education

2001-2005 Bachelor of Technology (Electrical & Electronics Engineering),

Mahatma Gandhi University, Kerala, India

Project Experience

Solution Architect for Digital Bioprocessing Platform

Organization : Wipro Limited

Customer : Merck KGaA, Darmstadt, Germany

Duration : June-2017 to till date Role : Solution Architect

Responsibilities:

- Provide technical leadership to medium size/complexity/order-value enterprise scale projects/solutions.
- Align teams on the Agile Release Train (ART) and Solution Train to a shared technical direction
- Understanding Requirements and define software architecture for front end, middleware & backend.
- Document the architecture and adhere to GAMP.
- Define the user stories along with the product owner.
- FMEA for features and user stories.
- Guide the team to deliver the committed user stories for iteration.
- Training and team ramp-up.
- Alignment and status update with internal and external stakeholders.
- Define architecture, function specification, test plan.
- Review of design specification, function test cases, design test cases.
- Development of recipe editor front end using ReactJS.
- Development of recipe backend/middleware/repository using springboot.
- Contribute to devops, build automation and continuous integration & delivery.

Software Architect for Diabetes Care Products

Organization : Wipro Limited

Customer : Roche Diabetes Care GmbH, Mannheim, Germany

Duration : June-2016 to May-2017 Role : Software Architect

Responsibilities:

- Understanding Requirements and define software architecture of remote control device.
- Document the architecture and adhere to IEC 62304.
- Component based architecture to isolate activities (features) into modular, scalable and reusable components.
- Encapsulate and abstract Presentation Tier, Application Tier, Communication Tier components and define each component's functionalities and collaboration/communication model.
- Prepare estimates and collaborate with Project management to prepare project plan.
- Collaborate with customer architect team and multisite Wipro team
- Drive the design and development activities.
- Team building and team ramp-up.
- Alignment and status update with internal and external stakeholders.
- Architecture Round table with customer.
- Ensure timely delivery with agreed deliverables in SOW (statement of work).
- Ensure Architecture, detailed design and code to adhere with Diabetes care instrument safety and IEC 62304.
- Ensure traceability from Sys Architecture to detailed design to implementation, Architecture, detailed design and code to adhere with Diabetes care instrument safety and IEC 62304.

Evaluate Change request or new proposal and prepare technical inputs/solutions.

Technical Lead for Android application and J2ME VM

Organization : NXP Semiconductors India Pvt Limited

Customer : Samsung, Seoul, South Korea & Huawei, Shenzhen, China

Duration : November-2011 to May-2016

Role : Software Architect

Responsibilities:

- Design and development of Android applications
 - o Group Video Recorder http://goo.gl/ekvzYY
 - MyKids TV
- Implement the App UI as per the design document.
- Design the android application framework API's to display thumbnail, add music and add title.
- Design the JNI and core library to enable thumbnail extraction, music replacement and video overlay.
- Implement android framework layer, JNI and C library.
- Implement RESTful web services
- Integrate with app.
- Stability test with 13hr monkey testing.

Technical Lead for in-house product and prototyping

Organization : NXP Semiconductors India Pvt Limited

Customer : Internal Stakeholders

Duration : November-2011 to May-2016
Role : Developer, Innovation Champion

Responsibilities:

- Enhance the capabilities of NXP audio & speech solutions. http://goo.gl/qBSKN7
- Benchmark Test Framework for evaluating algorithms for audio based event/context detection.
 - Setup Benchmark team for audio event/context detection solutions.
 - Proposal for Benchmarking standard. Framework/setup to be used for benchmarking.
- Drive the innovation activities and conduct innovation workshops to generate new ideas.
- Context awareness proof of concept using sensor fusion.
 - o Data collection and heuristic evaluation.
 - Develop scripts to analyze data and generate report.
 - Productize and introduce machine learning algorithm for improving accuracy.
- Music Player controls for Sony SmartWatch2 Wearable.
- Intelligent Voice Recorder Android Application.
- Sample micro blogging application for technology demonstration.
- Development and maintenance of java virtual machine (JWare) for feature phones.
 - Development of the Java API (JSR) framework, JNI/KNI and abstraction layer.
 - Implementation and support of KVM, JSR139(CLDC), JSR118(MIDP),
 JSR135(Multimedia), JSR75(PIM FC), JSR257(NFC), JSR120(WMA), JSR205(WMA-MMS),
 JSR82(Bluetooth).

Senior Software Engineer (Specialist) for in-house Java Virtual Machine for LG Mobile Phones

Organization : LG Soft India Private Limited
Customer : LG Electronics, Seoul, South Korea

Duration : May-2006 to November-2011

Role : Software Developer

Responsibilities:

- JVM and JSR deployment on various LG mobile phones.
- TCK, JDTS, MIDlet testing, JTWI and MSA compliance.
- Coordinating with the offshore team for the resolution of issues and timely delivery of project.
- Communicating with the VM vendor and application provider for timely release of software.
- Interacting with the field engineers and other testing teams for the issues reported.
- Ensuring acceptance testing and delivering the final product to the various stakeholders.
- Ensure project road map is adhered. 0% Schedule Variance.
- Development and porting of JSR 135 Mobile Media API. Support for Audio, Video, Camera.
- Implementation of complete JSR82 functionality including push registry over MBT stack.
- Porting of JSR75 PDA Optional Packages over ADI-TTPCOM platform
- Implementation of JSR256 Mobile Sensor API
- UI Customization for KU580
- Understanding the JSR specification, Requirement gathering, High Level design, Low level Design, Coding, Unit testing, System Testing.

Honours and Awards

- 212 Degree Award by Merck Q2-2018
- Rockstar Award by Merck Q1-2018
- NXP "A" Team Award for valuable contribution to Project-Huawei Grace Q1-2015
- Spot Award for Huawei Grace Project 2015 March.
- Spot Award for conceptualization of IN-OUT VEHICLE state detector 2014 October.
- Star Team Award for contributing significantly to LG's business performance 2010 February.
- Certificate of Excellence for outstanding performance and contribution to LG's business objectives 2010 February.

Additional Information

Languages Known : English, Hindi, Korean (intermediate), German (Beginner).

Nationality : Indian Family Status : Married

Certificates, current and former professional references can be provided on request.