



Abhishek

India

I have been working as a Technical Manager in my organization. In my tenure of 9 years working as a Developer and Technical Manager, I have been able to design and create solutions, work with teams across different domains (Software, Robotics, Mechanical Design, Testing, Delivery teams) to create and deliver products. Part of my role includes (part of my strengths), 1. Evaluating and working on a system design which includes DB design, API design, Screen design, System and user flows, architecture, among others. 2. Working with teams to implement and execute the design 3. Analysing issues during execution. 4. Scripting and automating tasks 5. Creating mockups and screens for the teams to implement 6. Make sure end to end products are tested, help create testing plans with QA teams 7. Involved in technical discussions with other teams to suggest them better designs 8. Suggest tools and implement solutions to help standardize and modularize common modules used across products. Working on (part of my weakness), 1. Putting in the habit to document the process from the beginning of the development 2. Working on regular team discussions technical and non-technical 3. Working towards following a scrum plan religiously 4. As being involved in multiple products, working towards maintaining focus on each product.

Technical Skills

You will be matched for these following skills:

Python	3 years
AWS	4 years
AWS Lambda	2 years
AWS Solutions Architecture	2 years

Additional skills:

Mobile App Development 4 years	Node.js 1 year	Bash 3 years	Prometheus 1 year
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Linux 7 years	Android 1 year	Objective-C 3 years	C 1 year	Android/Java 1 year
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React Native 1 year	Swift 2 years	Kotlin 1 year	Robotics 2 years	PostgreSQL 4 years
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Tableau 1 year	Logistics 2 years	PHP 3 years	Angular 1 year	Cloud 4 years
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IoT 2 years	Manual Testing 4 years	Functional Testing 5 years	Grafana 2 years
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Django 1 year	Tech Lead 5 years	Security 2 years	VPN 2 years
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Communication 7 years	Spring 1 year	Spring Boot 1 year	Troubleshooting 3 years
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iOS Development 1 year	Embedded Systems 2 years	Team Management 3 years
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Product Management 4 years

Work History

Technical Manager - Products

July 2016 - Present
5 yrs 7 mos

Xcaliber Infotech Pvt. Ltd.

Midas

https://phoenix.tech/midas

Midas is aimed at providing a value-driven reverse logistics solution for a Supply-chain ecosystem. This product is a one-stop solution for processing a smartphone or a gadget from when it enters the warehouse to where it should be based on many factors all of which are taken by the solution as parameters and processed by the rules engine that drives the outcome.

It is a web-based solution with the recent involvement of some Robotics and Automation to automate the receiving process.

Tech stack is developed using Linux, PHP, Mule, Drools engine, Postgresql for transaction data, and MSSQL for Analytics using Tableau. Python, Bash and some low-level micro-controller code handle the automation. Worked with testing teams for Functional and Manual testing of the solution.

1. This product is beneficial to the companies dealing in the supply chain as it provides all the important aspects handled as a set of parameters.

2. The solution is expandable and easily configurable for any company that wants to ease the reverse logistics process.

3. The algorithm that the product is built on has been granted a patent in 2020.

Python	PostgreSQL	Tableau	Logistics	Bash	PHP	Robotics	Manual Testing	Linux
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Deepsight

https://phoenix.tech/deepsight/

Deepsight is a cosmetic grading machine designed to grade smartphones. The accuracy of the manual grading process is not reliable and hence Deepsight aims at resolving those problems with machine learning.

The machine can automatically grade a device and differentiate between different kinds of defects on a smartphone.

Using Python as a backend code and patented machine learning algorithm on Linux, the machine in a cycle time of 60 secs can detect defects on all sides of a phone. Worked with testing teams for Functional and Manual testing of the solution.

Accompanying cloud solution built on Linux, Angular, Mule, and Postgresql as a DB, along with AWS S3 for storing transaction images and AWS Lambda to run rules for some transaction results.

1. This solution helps in automatic grading of smartphones and the technology is so modular and portable that it can be modified for any product needs.

PostgreSQL	Machine Learning	Python	AWS	Angular	AWS Lambda	Cloud	Linux
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Manual Testing

Deepcatch

https://phoenix.tech/deepcatch/

Deepcatch is an IIOT solution, used for remote asset monitoring and providing some preventive as well as predictive maintenance for the products. As a product, it has been managed by my team and led by me from conceptualization to implementation. This was a stepping stone for the company as it entered Industry 4.0.

The problem with the machines before the 4.0 revolution was that the data was just lying out there and it was difficult to understand the issues before they happened without help from an industry expert. This product unlike various others in the market aims to solve that at the same time providing higher edge computing capability and factory automation.

Tech used to build this product were Linux, Python, AWS, AWS Lambda, AWS IoT Core for sending the data and processing it. PHP along with Mule were used as frontend and backend, MSSQL for storing the data and processing it for Tableau for Analytics. Worked with testing teams for Functional testing the solution. Worked with Embedded Systems with the team to identify the best use cases for sensor integration along with the IIOT gateway.

Also in the meantime worked with the AWS team to improve the cloud infrastructure using the collective knowledge of AWS Solutions Architecture of the team.

Explored multiple analytics solutions using Prometheus and Grafana to show dynamic charts and reports.

1. The product was mainly aimed to provide connectivity for our own products when they are out on the sites. And this provided us with remote push capability and sent the monitoring info to the cloud for us to monitor them.

2. Now the system is also modified to be used for other IIoT clients that need the solution.

Python	Tableau	PHP	AWS Lambda	IoT	AWS	Cloud	Prometheus
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AWS Solutions Arc...	Embedded Systems	Grafana	Linux	Functional Testing
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Impersonator

https://phoenix.tech/impersonator/

Impersonator is a functional testing bot aimed to automate the manual testing of devices. The core algorithm of the system is built on the concept of automating the manual testing process.

Repetitive testing can be exhausting for operators who work on it and exertion leads to a mental breakdown which leads to incorrect to inconsistent results. This solution aims to just solve that.

The solution is so extendable that the existing logic and algorithm can fit into any machine of any kind and perform the same repeatable results. The technology is majorly built on Python, Django, Celery, Machine learning, interacting with the automation system. The cloud is built on Linux, PHP, Mule, Spring Boot, and the data is managed using Postgresql.

This product also involves Mobile App Development /iOS development/Android development using ReactNative and also Swift for bridging the 2 platforms.

During this tenure, I have worked on AWS Lambda and other AWS services to support remote transaction processing.

Client Communication was one of the key aspects for building the initial product.

1. An extensible framework for automating manual testing work.

2. The system can be changed for testing any kind of handheld devices provided the mechanical and robotics are modified to cater to the devices, the underlying software can remain the same with minor modifications.

3. The solution is scalable to build multiple such machines and work simultaneously to provide better results in terms of throughput.

Django	Robotics	Functional Testing	PHP	Python	Celery	Machine Learning
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Manual Testing	PostgreSQL	AWS Lambda	Cloud	Spring	AWS	React Native	Android
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Swift	iOS Development	Mobile App Develop...	Spring Boot	Linux	Communication
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Others

Some various other technology and stacks I have explored during this period are,

1. Building a solution for centralizing the communication across all the products in an ecosystem.

2. Supporting Infra and Technical support teams to build scripts and automate the processes, explore and manage cloud infrastructure, Solve security issues, explore building P2P reverse VPN tunnel for accessing systems, build logger server using Loki and Grafana.

3. Acting as a technical consultant for other products and helping them where required.

4. Building and architecting solutions with other tech lead for new products.

5. More interaction with clients and stakeholders for discussing the product implementation requirements.

Technologies worked on:
Bash scripting, Node.js, Python scripting and automation, ReactNative, React.js

Along with product management, team management and giving architectural decisions was one of the important responsibilities.

1. Better team visibility and technical insights into other aspects of the technology.

2. Better and improved communication techniques.

3. Better team handling and management

4. Better technical insights into hardware and non-technical aspects of a system while designing a new solution.

VPN	Security	Grafana	Tech Lead	Python	Cloud	React	Bash	Communication
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Node.js	React Native	Team Management	Product Manage...
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Assistant Manager - iOS Developer

March 2015 - July 2016
1 yrs 4 mos

JIO Infocomm Pvt. Ltd.

MyJio

https://www.jio.com/en-in/apps/my-jio

MyJio app is a customer-facing application provided by JIO Telecom. This app is used to manage customer accounts, watch movies, play the latest songs, back data, play games and do much more. The application was designed as a one-stop solution for current and upcoming new offerings as a part of using the telecom services. The product was built on both the iOS and Android platforms using a combination of multiple technologies like ReactNative, Swift, Objective-C, Java, and Kotlin.

During my term here I worked majorly in Mobile app development, troubleshooting the issues, and the last couple of months with a small research group to find a working solution for a probable product.

1. Being a new telecom provider with revolutionary 4G technology the company aimed at providing 4G to every corner of India with low data rates and 4G feature phones that were eventually launched later in 2016-2017.

2. The application served as a means of an all-in-one platform that provided customers with free access to all its platforms and that revolutionized the telecom market when other players eventually started providing the same benefit.

C	Java	Kotlin	Objective-C	Android	Android/Java	React Native	Swift	Access
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Mobile App Develop...	Troubleshooting	Android/Kotlin
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Software Developer

February 2013 - March 2015
2 yrs 1 mos

Xcaliber Technologies

SmartChk

https://download.cnet.com/SmartChk/3000-2094_4-76575395.html

The product was aimed at diagnosing issues with mobile functional aspects.

Along with the mobile application, I was also a part of the RnD team and was responsible for building the accompanying desktop agents using Python, Bash scripting, and core Linux systems for the mobile devices both iOS and Android.

The project was aimed at the reverse supply chain market for smartphones where mobile testing played a crucial role in identifying the working phones.

I was majorly working on Mobile app development using Objective C and Swift and along with that as a part of the Research and Development team to provide solutions to new ideas and troubleshooting the created libraries and frameworks to be used with the systems. As part of the research team, I have worked majorly on Linux and built libraries and frameworks for a solution.

This product revolutionized the automated mobile testing market and started a new trend with new companies developing their own solutions and launching. Our company was later bought out by BDIP L in 2016 who took over all the operations.

Python	Bash	Android	Mobile App Develop...	Troubleshooting	Linux	Objective-C	Swift
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C

Side Projects

Modular Home Automation - IoT

This product was the brainchild of me and a good friend of mine. The whole purpose of the product was to build affordable and easy to install and use home automation solutions into existing homes in India. The electrical setup is generally very messy in homes which have been built a decade back and people generally do not expect that such a technology can be installed into their existing home.

We were going at a good pace and I was working as a Technical head and was also looking after the development. The tech stack for the prototype was built on Raspberry Pi, NodeJS as a server, Websockets, the iOS mobile app built on Objective C at the time. Cloud was built on AWS using Node.js and MongoDB as the database.

Node.js	Web Sockets	iOS Development	MongoDB	AWS	AWS Lambda	Objective-C
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Education

August 2008 - May 2012

Mumbai University

Bachelors Of Engineering In Information Technology

Certifications & Awards

2018

Design Thinking - IIM Bangalore

2022

IoT And Smart Analytics - IIIT Hyderabad