Ratnadeep Subhash Kadam

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PROFESSIONAL JOURNEY

CereLabs Pvt. Ltd.
Designation: *Software Development Intern*
Tenure: *16-Jan-2017 – 10-Apr-2017*

CereLabs Pvt. Ltd.
Designation: *Research Fellow*
Tenure: *27-Apr-2017 – 19-Jul-2017*

Aurify systems Pvt. Ltd.
Designation: *Research and Development Lead*
Tenure: 20-Jul-2017 – 03-Jun-2019

Ink IT solutions
Designation: *Associate consultant*
Tenure: 05-Jun-2019 – 14-Aug-2021

Sun Pharmaceuticals Industrial Ltd.
Designation: *Executive*
Tenure: *17-Aug-2021 – 21-Mar-2023*

Manorama Infosolutions Pvt. Ltd.
Designation: *Technical Lead*
Tenure: *23-Mar-2023 – Present*

EDUCATION

UNIVERSITY OF MUMBAI
Masters of Computer Science.
April 2017 | Mumbai

UNIVERSITY OF MUMBAI
Bachelors of Computer Science.
May 2015 | Mumbai

KOLHAPUR BOARD
Higher Secondary Certification

PROFESSIONAL SUMMARY

Software Development Intern | CereLabs Pvt. Ltd.
16-Jan-2017 – 10-Apr-2017
Plant disease detection
- Designing and managing the MySQL database for android based project "*Plant disease detection*" which was AI based application to detect the plant diseases by taking the pictures of plants.
- Writing functions, triggers, stored procedures to manage the MySQL database CRUD operations.
- Writing scripts to import the custom data from MS Excel to MySQL.
- Writing a CRON Jobs to perform the periodic activities on database through API calling.

Research Fellow | CereLabs Pvt. Ltd.
27-Apr-2017 – 19-Jul-2017
Trending of Automobile Industries
- Writing an R script for scrapping web data to collect the automobile industries trends.
- Writing scripts to convert unstructured scrapped data into presentable and structured data.
- Writing scripts to represent the structured data in different graphs to understand the trend in automobile industry.

Video Analytics
- Responsible to prepare the standard annotated data to train the YOLO v2 (You Only Look One) model for video analytics.
- Responsible to fine tune the YOLO v2 Deep Learning model parameters to get correct/precise output from trained model.

Research and Development Lead | Aurify systems Pvt. Ltd.
20-Jul-2017 – 03-Jun-2019
StoreScript
- Responsible for designing and develop StoreScript application using YOLOv3 in python which was mainly responsible for video analytics in retail industries to provide them future predictions as well as providing periodic data visualization which helps them to take a decision.
- Responsible for developing a deep learning model in python using Tensor Flow framework to provide a demographics.
- Responsible for designing and developing a queue management system in python using computer vision to reduce customer waiting time at the counter of shops.

StoreScript Vision
- Responsible for Client side (Developed in Android) and Server side (Developed in Python) development to perform the Real time face recognition for touchless attendance system.
- Responsible for building a C++ library to use into the android projects for performance improvement of offline face recognition.

Hospitality Management
- Responsible for designing and developing applications in python for an Oman based client which was responsible to provide the real time space occupancy details from canteen to all across the company premises to

reduce the waiting time of employees at canteen doorsteps.

March 2012 | Ratnagiri

KOLHAPUR BOARD

Secondary School Certification

March 2010 | Ratnagiri

SKILLS
- C/C++
- Python
- Java
- Android
- C#

FRAMWORKS
- Django
- TensorFlow
- YOLO v2/v3
- OpenCV
- DLib
- ASP.Net
- ASP.Net MVC

DATABASES
- MS Access
- MySQL
- SQLite
- Oracle
- SQL Server

DEVLOPMENT TOOLS
- PyCharm
- R Studio
- SQL Developer
- SQLyog
- Visual Studio
- Visual Studio Code

VERSION CONTROL TOOLS
- GitHub
- GitLab
- Tortoise SVN

APPLICATIONS

Driver Drowsiness Detection
- Responsible for Design and developing a "Drowsiness detection and alert system" in Python for client Meru Cabs with the help of IoT devices.
- Responsible to Test and Deploy the application on Raspberry Pi.
- Responsible to provide the live demos to client users.

Computer Vision Based tool to greet the peoples
- Responsible to develop a system which will fetch the feeds from CCTV camera's and will greet the users/visitors through audio which are known to system.
- Responsible to do the real time testing of the designed system at client sites and providing the demos to end users.

Associate consultant | Ink IT solutions
05-Jun-2019 – 14-Aug-2021
LIMS 4.1.x & IIM
- Leading a LIMS 4.1.x (Laboratory Information Management Systems) team of 7 peoples to provide a global support to avoid the delay in batch releases.
- Responsible to provide LIMS (Laboratory Information Management Systems) L1, L2 and L3 support across all over the sites as per defined SLA's.
- Responsible for LIMS incident Management activities (from Incident pre-approvals till Incident closure).
- Responsible to perform the RCA for incidents reported from end users.
- Debugging the application from cade as well as database side during RCA and finalizing the appropriate CAPA.
- Responsible for Investigation report preparation, review with stakeholders and approval.

Executive | Sun Pharmaceuticals Industrial Ltd.
17-Aug-2021 – 21-Mar-2023
LIMS 5.0.x & eLIMS
- Leading a LIMS 5.0.x (Laboratory Information Management Systems) team of 5 peoples to provide a global support to avoid the delay in batch releases.
- Responsible to provide LIMS (Laboratory Information Management Systems) L1, L2 and L3 support across all over the sites as per defined SLA's.
- Responsible for LIMS incident Management activities (from Incident pre-approvals till Incident closure).
- Responsible to perform the RCA for incidents reported from end users.
- Debugging the application from cade as well as database side during RCA and finalizing the appropriate CAPA.
- Responsible for Investigation report preparation, review with stakeholders and approval.
- Fixing the bugs as per the CAPA finalized.
- Responsible for planning of Unit testing, Functional testing and Regression testing.
- Review the test scenarios against the incidents.
- Responsible for IQ (Installation Qualification) executions, OQ Executions,

PQ (Performance Qualification) executions.

- Ubuntu 18/20
- Raspberry Pi
- NVIDIA Jetson
- LIMS 4.1.x
- LIMS 5.0.x
- eLIMS (Paperless LIMS)
- IIM (Instrument Integration)
- Novatek (Nova-LIMS)
- Validator
- TrackWise
- EDMS
- Lonza Moda (eMicro)
- HIMS

TECHNOLOGIES
- Intel Neural compute stick
- Windows 7/10

AREA OF INTERESTS
- Machine Learning
- Computer Vision
- IoT
- Automation
- Learning/Exploring applied Technologies.
- Managing the Laboratory projects.
- Lab Instrument Integration

LANGUAGES
- Marathi
- Hindi
- English
- Gujrati (Beginner)

- Preparing and reviewing the validation deliverable documents as a Technical Owner like IR, Test Plan, IQ, OQ, PQ, CS, DS, FRS, SRS, VSR, SRR.
- Responsible to prepare Change Control for Build and application version releases.
- Responsible to take a change requests from Functional team, perform the technical evaluation along with Development team and providing the solutions to end users.
- Responsible for rollout the LIMS 5.0.x application across global sites.
- Responsible to patch implementation of application across global sites.
- Responsible to provide LIMS application UAT as well as functional training to end users.
- Responsible to provide the custom data to end users as per requirements from MySQL database and Oracle database by writing custom queries/scripts.
- Providing on-site post implementation support as an implementation lead to global sites as and when required for running smooth business.
- Responsible to finalize the scope and planning of build release.
- Responsible to do the development, QMS and testing resource management.
- Responsible to perform the PD and UPD investigations and finalizing the appropriate CAPA to avoid such incidents in future.

Novatek Stability Program
- Novatek is a standard (Category-4) application where LIMS, Stability management is being performed.
- Leading the Novatek stability program as a technical owner in which performing all application management from technical site.
- Responsible for build releases, UPD's, validation deliverable documents, periodic performance improvement discussions with vendors.
- Providing solutions to end users by utilizing the application in build capabilities/functionalities.
- Leading Novatek support team of 2 members for global support.
- Managing Novatek application periodic activities as per the 21CFR part 11.

Lonza Moda (eMicro)
- Lonza Moda and eMicro are the Category-4 and Category-5 applications respectively.
- Both applications are used for production area environmental monitoring and analysis systems.
- Responsible to fix the bugs of eMicro application as well as testing the application against the defined URS points.

Extra activities carried out other than allocated projects
1. **Periodic report utility:**
- Developed utility to generate the periodic reports of support team members which were getting submitted to management.
- Initially it was consuming 1 day for 1 man to prepare the report where accuracy level was less than 90%.
- After development of utility, any team members are being able to generate the report within 10 mins with accuracy of 100%.
- It is a decision-making report through which team performance is getting evaluated.

2. **Inventory management utility:**
- Developed inventory management utility connected to LDAP in which global support teams inventory can be managed including global system details, teams members inventory, periodic reminders to team to avoid the deviations of activities.

3. **Strengthening team members:**
- Conducted periodic training sessions of undertaken applications in which provided the business as well as technical workflow training.
- Encouraged team to think out of the box to reduce and automate the daily routine work by writing the scripts/macros through which reduced the frequency of UPD's for same activities from 3 to 0.

4. **Code review of bug fixes:**
- Performed the code review of bug fixes and guided development team to write the redundant code without impacting the existing application functionalities.
- Performed development of bus reported from end users in unavailability of development team.
- Writing custom scripts for Novatek systems which are required to generate the daily reports.

Technical Lead | Manorama Infosolutions Pvt. Ltd.
**23-Mar-2023 – Present**

LIS Integration Developer:
- Responsible to design and develop the middleware application with the help of .Net core technology which will treat like a communication channel between Hospital lab instruments and HIMS (_Hospital Management Systems_)/EPIS (_Electronic Patient Information System_).
- Establishing a bi-directional communication with all the hospital devices which share the data over "TCP/IP, Serial, File Based" which having different communication formats like HL7, ASTM, HL7 FHIR.
- The application is developed on .Net 6 platform using WPF (Windows presentation Foundation) with MVVM design pattern.
- Responsible to prepare/manage the project plan and track the project status to represent the same to management.