

Jaladhi Vyas 

Software Engineer, seeking roles in End to End Product Development, Algorithm Development, Machine Learning, Computer Vision

Current Designation: Software Engineer

Total Experience: 4 Year(s) 6 Month(s)

Current Company: Elektrobit India

Notice Period: 2 Months

Current Location: Bengaluru / Bangalore

Highest Degree: M.Tech [Machine Intelligence]

Pref. Location: Bengaluru / Bangalore, Hyderabad, Pune

Functional Area: IT Software - Application Programming / Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Single/unmarried

Key Skills: Research Engineer, Software Developer, Application Development, Unit Testing, Algorithm Development, Algorithms Design, C++, Python, Qt, Pycharm, Tensorflow, Keras, OpenCV, Image Processing, Machine Learning, Github, Shell Scripting, Data Structures, OOP, STL

Verified : Phone Number | Email - id

Last Active: 20-Jan-21

Last Modified: 20-Jan-21

Summary

Experienced software developer, with proven record in algorithm development in imaging domain with C++, Java and Python. Ready to learn and result oriented mindset. Equally effective in team environment or as an individual contributor

Work Experience

Elektrobit India as Software Engineer

Aug 2018 to Till Date

Developer in product development team for Comprehensive Environment Modeling in sensor fusion domain with C++. The key responsibilities include: algorithm development, writing clean code, unit testing, functional testing, documentation, static code analysis. The following list of key features were developed with tools and technologies viz. C++, Visual Studio, Git.

- o Polyline fusion algorithm.
- o Generic architecture design for obstacle fusion.
- o Real time road boundary estimation using radar input.
- o Prioritization of static obstacles.
- o Architecture for command line tool.

Jekson Vision Pvt Ltd. as Research Engineer

May 2017 to Jul 2018

Research and development in the area of machine vision based inspection systems. The key Responsibilities were: algorithm development, writing clean code, unit testing, functional testing and documentation. The following list of algorithms were developed with tools and technologies viz. C++, STL, Python OpenCV and Visual Studio.

- o Texture defect detection in pharmaceutical blister images.
- o Auto color dissimilarity measure using dictionary learning method.
- o Tablet tracking using frame sequence matching.
- o Shape and orientation estimation for pharmaceutical tablet images

Nirma University as Assistant Professor
Feb 2014 to Apr 2017

Teaching: Design and analysis of algorithms, Data structures, Operating Systems, Computer Graphics, Discrete mathematics.
Research: Publish articles, participate in training and workshops

Education

UG: **B.Tech/B.E. (Computers)** from **Sardar Patel University (SPU)** in **2011**

PG: **M.Tech (Machine Intelligence)** from **Dhirubhai Ambani Institute of Information and Communication Technology (DA-ICT), Gandhinagar** in **2013**

Other Qualifications/Certifications/Programs:

Deep Learning Specialization

Design and Analysis of Algorithms

IT Skills

Skill Name	Version	Last Used	Experience
C, C++	11	2020	3 Year(s) 6 Month(s)
Python	3.2	2020	2 Year(s) 0 Month(s)
OPENCV Library	3.2	2020	4 Year(s) 0 Month(s)
QT, Visual studio	5.7	2020	2 Year(s) 0 Month(s)
Tensorflow, Jupyter Notebook	Py: 3.0	2018	1 Year(s) 0 Month(s)
MS Office, LibreOffice	2013	2018	12 Year(s) 0 Month(s)
Linux, MS Windows	16.04	2018	4 Year(s) 0 Month(s)
CORE JAVA	13	2020	1 Year(s) 0 Month(s)

Languages Known

Language	Proficiency	Read	Write	Speak
English	Expert			
Hindi	Expert			
Gujarati	Expert			

Projects

Project Title: Real time road boundary detection using polygon based sensor input
Client: Honda Motors
Nature of Employment: Full Time
Project Location: Elektrobit India
Duration: Sep 2018 - Feb 2019
Onsite / Offsite: Offsite
Team Size: 3

Skill Used: C++11, Visual Studio, Git, JIRA, Algorithms, Data Structures
Project Details: Detecting optimal road boundaries using polygon based static obstacle output.

Project Title: Color dissimilarity measure using dictionary learning method
Client: Mylan (Jay Pharma)

Nature of Employment: Full Time
Project Location: Jekson Vision Pvt. Ltd
Role: Domain Expert
Skill Used: C++, Image Processing, Opencv, VC++,
Role Description: Algorithm Development, Code, Add to Product.
Project Details: Tablet color dissimilarity measure using real time dictionary learning method.

Duration: Dec 2017 - Mar 2018
Onsite / Offsite: Offsite
Team Size: 2

Project Title: Texture defect detection in pharmaceutical blister images
Client: Mylan (Jay Pharma)
Nature of Employment: Full Time
Project Location: Jekson Vision Pvt. Ltd
Role: Programmer
Skill Used: Image Processing, C++, OpenCV library, Visual Studio,
Role Description: Idea establishment,
Algorithm Development,
Convert algorithm into C++ code
Project Details: Currently in Product

Duration: Jun 2017 - Nov 2017
Onsite / Offsite: Onsite
Team Size: 3

Project Title: Automatic Target Image Detection for Morphing
Client: University
Nature of Employment: Full Time
Project Location: DAIICT
Role: Programmer
Skill Used: Image Processing, MATLAB
Role Description: Idea Establishment,
Algorithm Development,
Comparison with other approaches
Project Details: Objective: Given a human face image as a source, automatically identify the best target animal face image and to detect the features of both these images using the same approach so that entire morphing process can be done automatically.

Duration: Jul 2012 - Jun 2013
Onsite / Offsite: Onsite
Team Size: 1

Project Title: Face angle detection using feature extraction
Client: University
Nature of Employment: Full Time
Project Location: DAIICT
Role: Programmer
Skill Used: MATLAB
Role Description: Idea establishment,
Algorithm Development,
Convert algorithm into MATLAB code
Project Details: Facial features such as eyes were extracted and using their positional information angle of the given face image was measured with reference to frontal face image.

Duration: Jan 2012 - Jun 2012
Onsite / Offsite: Onsite
Team Size: 1

Project Title: Image Editor
Client: University
Nature of Employment: Full Time
Project Location: BVM engineering College
Role: Programmer
Skill Used: Core Java, Image Processing,
Role Description: Application Development
Project Details: A GUI application was developed for manipulating images using basic image processing algorithms viz. image enhancement, transformation, rendering and edge detection.

Duration: Jan 2011 - Jun 2011
Onsite / Offsite: Onsite
Team Size: 2

Affirmative Action

Physically Challenged: No

Work Authorization

Job Type: Permanent

Employment Status: Full time