

**PRATIK RAJ** 

Software Engineer seeking roles in Software Development, Application Programming, Application Maintenance, Project Management, Requirement Gathering, Business Analysis, Solution Architecture, C, C++, Python, Keras, Data Structures, Algorithms, OOP, Perforce

Current Designation: Software Engineer -Software Development

Total Experience: 2 Year(s) 6 Month(s)

Current Company: Samsung Electronics

Notice Period: 2 Months

Current Location: Noida

Highest Degree: B.Tech/B.E. [Information Technology]

Pref. Location: Delhi / NCR, Bengaluru / Bangalore

Functional Area: IT Software - Application Programming / Maintenance

Role: Software Developer

Industry: IT-Software/Software Services

Marital Status: Single/unmarried

Key Skills: Software Engineer, Software Developer, Software Development, Project Management, Solution Architecture, C, C++, Python, Data Structures, Algorithms, OOP

Verified : Phone Number | Email - id

Last Active: 21-Jan-21

Last Modified: 20-Jan-21

## Summary

Result-oriented Professional with 2.6 years of experience in Software Development, Application Programming, Application Maintenance, Project Management, Requirement Gathering, Business Analysis, Solution Architecture, C, C++, Python, Keras, Data Structures, Algorithms, OOP, Perforce.

## Work Experience

### Samsung Electronics as Software Engineer -Software Development

Jun 2018 to Till Date

Majorly worked on Android graphics framework and applied the understanding of complete frame lifecycle from its rendering to its display to resolve software related issues.

Worked on various performance tools to analyze and further enhance the performance of the system as well as GPU.

Contributed to the android OS upgrade feature deployment and integration of graphics related security patch.

Developed deep learning and computer vision based models to add as a feature in android phones.

#### PROJECTS

Talking Image JAN 2020 - MAR 2020

Used MSCOCO and Flickr30 as image dataset to generate natural language captions of images using deep CNN and attention based Transformer model which then be converted to speech form. After generating image features from state of the art networks, these are mapped with proper word embedding using multi-head attention method. This model is then encapsulated in android app along with other robust features.

ANN based classification model to predict composition type (via GPU or HWC) of a frame in android MAY 2019 - JUN 2019

There are two different types of method to compose a frame. One is through GPU, other is by HW Composer. Dataset was created through various sources such as GPU / CPU utilizations, clock frequency, memory requirement, battery consumption etc. Then using supervised neural networks, created a model to accurately predict the type of composition.

Integration of Google security patch in various vendor chipsets FEB 2019 - MAR 2019

Worked on code handling to integrate security patch provided by Google to all the chipsets/processors for Android 9.

Generation of hand written numbers through GAN JAN 2018 - MAR 2018

Worked on generation of handwritten numbers directly from speech using conditional generative Adversarial Network (GAN) having two Convolutional neural networks, one is generator and other is critic. Used MNSIT digits dataset to build this model.

Education

UG: B.Tech/B.E. (Information Technology) from Indian Institute of Engineering Science & Technology, Shibpur in 2018

IT Skills

Skill Name	Version	Last Used	Experience
C, C++			
Python, Keras			
Data Structures & Algorithms			
Jupyter, ADB			
PERFORCE			

Languages Known

Language	Proficiency	Read	Write	Speak
English				
Hindi				

Affirmative Action

Physically Challenged: No

Work Authorization

Job Type: Permanent  
Employment Status: Full time