Pranav Garg

Aspiring Software Developer

A straight shooting go-getter with an unquenchable thirst for knowledge and a large appetite for hard work

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WORK EXPERIENCE

Software Development Engineer
Amazon

11/2019 – Present   *Hyderabad*

I joined Value Added Services at Amazon as a full time software developer.

Software Development Intern
Amazon

05/2019 – 07/2019   *Hyderabad*

I interned at Amazon as part of a services platform named Value Added services. I received a full time offer for my work.

Achievements/Tasks

- I designed and created a server-less cloud based Data ingestion and discovery pipeline.
- Worked with the following AWS offerings: S3, Lambda, Kinesis, DynamoDB, SQS, Cloudwatch and Eleastic Search

Research intern
Center for Neuroscience, Indian Institute for Sciences

01/2019 – 05/2019   *Bangalore*

I authored my undergraduate thesis titled "Predicting behavioral scores of individuals using structural connectivity" based on HCP dMRI dataset.

Intern
Google Summer of Code 2018 - Ruby Science Foundation

05/2018 – 08/2018

I developed a scientific plotting library for Ruby, "Rubyplot" from scratch and presented the same at RubyConf 2018.

System Admin
Kosambi Administration and maintenance team

12/2017 – 11/2018   *Goa*

In charge of the management of the cluster computer (Kosambi) in BITS Pilani

HPC Co-ordinator
Sandbox Makerspace

02/2017 – 11/2018   *Goa*

I was in charge of setting up and maintaining GPU's for HPC. The Makerspace is in BITS Pilani Goa

Vice President
IEEE Student Branch

04/2017 – 04/2018   *Goa*

BITS Pilani

SKILLS

Software Development | Cloud Computing | AWS

Server-less Computing | Machine Learning

Deep Learning | Computer Vision

Theoretical Neuroscience | Graph theory

Public Speaking | Pytorch | Numpy | Pandas

Elastic Search

PROJECTS

Detection of Windmills from satellite Images using Faster RCNN (05/2017 – 07/2017)

Image Segmentation on Spacenet dataset using Fully Connected Networks (10/2017 – 12/2017)

Segmentation of Nucleii in Microsope slides using an Architecture derived from UNet

RubyPlot (05/2018 – 08/2018)

- I created the prototype of an open source plotting library for Ruby from the Scratch and am involved in its further development and release.

Modelling single neuron as a graph (12/2018 – Present)

- I am modeling a single neuron as a graph which can act as a sub-graph in a neuronal network to preserve morphology while increasing computation speed.

ACHIEVEMENTS

Speaker at RubyConf 2018 Los Angeles (11/2018)

I was the only Student speaker at RubyConf 2018. my talk can be found at https://www.youtube.com/watch?v=7QBkckZ1aNQ

Participated in CAMP 2018 (06/2018)

I was one of the few undergrads selected to attend an international summer school about Neuroscience at NCBS Bangalore.

LANGUAGES

Language	Proficiency
Java	●●●●●
Python	●●●●○
Ruby	●●●●○
C++	●●●○○
MATLAB	●●○○○

WORK EXPERIENCE

Research Intern
Indian Space Research Organization (ISRO)

05/2017 – 07/2017   *RRSC-W Jodhpur*
I lead the project for object detection in Satellite imagery

EDUCATION

B.E. Electrical and Electronics Engineering (Hons.)
BITS Pilani

08/2015 – Present   *Goa*
Courses (Relevent)

- Theoretical Neuroscience
- Probablity and Statistics
- Machine Learning
- Discrete Mathematics
- Computer Programming
- Linear Algebra
- Neural Networks
- Data Structures and Algorithms

INTERESTS

Non- Fiction Books   Public Speaking