# Abhishek V Joshi

https://jbnerd.github.io
f2015116@pilani.bits-pilani.ac.in | abhishek@pixxel.co.in | abhivjoshi.aj@gmai.com | 9769320230

## EDUCATION

**BITS PILANI**
B.E.(Hons.) Computer Science
Expected July 2019 | Pilani, India
CGPA: 8.83

## LINKS

Github:// **jbnerd**
LinkedIn:// **jb-nerd**

## COURSEWORK

### UNIVERSITY

Parallel Computing
Quantum Computing
Artificial Intelligence
Data Mining
Neural Networks and Fuzzy Logic

### MOOC

CS 231n [Stanford]
CS 224n [Stanford]
CS 249 [UCB]

### TEACHING ASSISTANT

Computer Programming (Fall 2017, Fall 2018)
Data Structures and Algorithms (Spring 2018)

## SKILLS

### PROGRAMMING

Strong:
C • Python
Familiar:
Java • C++ • Scheme (Lisp) • Assembly
Frameworks
TensorFlow • PyTorch • Numpy • OpenMP • OpenMPI • Cuda • Git

## EXPERIENCE

### SAMSUNG RND, BANGALORE | Summer Research Intern

May 2018 – July 2018 | Bangalore, India

- Modelled and developed a planning system for call allocation and migration in VMs of 5G-RAN
- Paper submitted to IEEE WCNC 2019

### PIXXEL | AI Team Lead

Aug 2018 - Present | BITS Pilani, India

- Leading a team of over 20 student members of Pixxel, working in AI for resource planning, forecasting, object detection and semantic segmentation using satellite imagery in a multitude of domains.

### BOMBAY STOCK EXCHANGE | Summer Research Intern

May 2017 – July 2017 | Mumbai, India

- Worked on a mathematical model for dynamic evaluation of periodic price bands on top-gaining penny stocks with encodings for overall market movement.

## RESEARCH

### STREAMING ALGORITHMS FOR SOCIAL MEDIA ANALYTICS

ADAPT LAB, BITS PILANI | Undergrad Research Student
Aug 2017 - Dec 2018 | BITS Pilani, India
Worked with Prof. Poonam Goyal on developing an online algorithm for detection and tracking of unanticipated sub-events in tweet streams.

### DWARF PARALLEL VIRTUAL MACHINE

ADAPT LAB, BITS PILANI | Undergrad Research Student
Aug 2018 - Dec 2018 | BITS Pilani, India
Worked with Prof. Sundar on designing, specifying and prototyping of a parallel virtual machine for the DWARF compiler [A DSL for data mining].

### OTHER PROJECTS

- SemSegSat : Implemented an end-to-end system with an internal U-net for semantic segmentation of road networks, buildings and water bodies from 3-band satellite imagery.
- DeepRL : Implemented the original and policy-gradients variant of Deepmind's "human level control using deep reinforcement learning".
- Path Planning Agent : Designed and implemented a heuristic based online terrain search agent with a local exposure.
- ParaWDI : Designed and implemented a new variant of bloom-join algorithm for parallel construction and query execution of a word-document index for distributed memory model.
- ParallelEdgeReverse : Implemented a parallel divide-and-conquer edge reversal algorithm for sparse directed graphs for shared memory model.

## SOCIETIES

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|---|---|---|
| 2017 | Fest Coordinator | Coding Club |
| 2017 | Treasurer | BITSACM (ACM Student Chapter of BITS Pilani) |