Abhishek V Joshi

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EDUCATION

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

LINKS

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

COURSEWORK

UNDERGRADUATE

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

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 • Numpy • OpenMP • OpenMPI • Gitt

EXPERIENCE

SAMSUNG RND, BANGALORE | Summer Research Intern

May 2018 – July 2018 | Bangalore, India

- Developed a planning system for call allocation and migration in 5G Radio Access Network. The virtualized components 5G-RAN are deployed in a cloud platform. Publication submitted.

PIXXEL | AI Team Lead

Aug 2018 - Present | BITS Pilani, India

- Leading a team of over 20 students of Pixxel, working in data analytics, computer vision and artificial intelligence for resource planning, forecasting and detecting map objects 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 dynamically evaluating periodic price bands on gaining penny stocks while taking into account the past behavior and the overall market movement.

RESEARCH

ADAPT LAB, BITS PILANI | Undergrad Research Student

Aug 2017 - Present | BITS Pilani, India

Working with Prof. Poonam Goyal and Prof Navneet Goyal on streaming algorithms for social media analytics, majorly aiming at detection and tracking of events on Twitter using context localization.

ADAPT LAB, BITS PILANI | Undergrad Research Student

Aug 2018 - Present | BITS Pilani, India

Working with Prof. Sundar on specifying a parallel virtual machine for the compiler of a domain (data mining) specific language, DWARF.

OTHER PROJECTS

- Semantic segmentation of map objects : Implemented a U-net for semantic segmentation of road networks, buildings, water bodies, etc.
- ParaWDI : Designed and implemented an original variant of bloom-join algorithm for parallelized construction and query execution of a word-document index on a Beowulf style cluster using message passing model.
- DeepQLearning : Implemented Deepmind's human level control using deep reinforcement learning.
- ParallelEdgeReverse : Implemented a parallelized edge reversal algorithm for a directed sparse graph using divide and conquer technique in a PRAM shared memory model.
- Path Planning Agent : Implemented a heuristic based online terrain search agent with a local exposure.

SOCIETIES

2018	AI Team Lead	Pixxel
2017	Fest Coordinator	Coding Club
2017	Treasurer	BITSACM (ACM Student Chapter of BITS Pilani)