NAMAN BHALLA

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SUMMARY

Pythonista, Algorithmist, Data Science Entusiast. Applying Deep Learning to Natural Language Processing or Computer Vision problems.

OBJECTIVE

Looking for a Software Engineering Internship for Summer 2018 which allows me to apply Computational Thinking to help solve problems that make impact on a big scale and further enhancing my knowledge in the field of Algorithms or Deep Learning.

SKILLS

Programming Languages: -
Python, Java, C, HTML
Frameworks and Libraries: -
Tensorflow, Numpy, Scipy, Matplotlib, pandas, statsmodels
Toolkits and IDEs: -
IPython Notebook, IntelliJ, Sublime Text, Atom
Others: -
Git, Data Structures, Algorithms, Deep Learning, Competitive Programming, Unix

CERTIFICATIONS

- Neural Networks and Deep Learning – Coursera – License VHGE5ECV5CHK

- Improving Deep Neural Networks – Coursera – License Y3LTLJTS2PN9

- Python – Coursera – License T6KF7U9RTDH7

MOOCs

- Algorithms (Stanford University)
- Introduction to Algorithms (MIT OCW)
- Machine Learning (Stanford)
- Deep Learning Specialization (deeplearning.ai)
- Convolutional Neural Networks for Visual Recognition (Stanford)
- Natural Language Processing with Deep Learning (Stanford)
- Mathematics for CS (MIT OCW)
- Automata Theory (Stanford)

PROFILE

Languages: -
English, Hindi, Punjabi
DOB: -
October 24, 1998

EDUCATION

- BML Munjal University
  - August 2016 – May 2020 (expected)
  - B.Tech, Computer Science and Engineering
  - CGPA – 9.66 / 10
- Thukral Public Senior Secondary School
  - April 2014 – April 2016
  - 12th, CBSE Board, 87.2%
- Birla School, Pilani
  - November 2011 – March 2014
  - 10th, CBSE Board, CGPA – 10 / 10

PROJECTS

- **Interactive Shortest Path Finder**

  Built an Interactive Shortest Path Finder utilizing the knowledge of Java and Shortest Path Algorithms (Djikstra in particular). The project aimed at mapping the whole university and marking various destinations as special points and using Djikstra's Algorithm to compute the Shortest Distance from one to another as per the request from the user. The project also listed the complete path with the views at various points one has to cross from, in a visually pleasing way.

- **DNA Analysis**

  Used knowledge of Python and Scientific Libraries like NumPy, Matplotlib to analyze a DNA sequence and convert to corresponding Protein Sequence. Pair Wise alignment and scoring matrix was made. Also wrote algorithms to find hydrophobicity plot for the protein sequence.

- **Image Recognition using Linear Regression and Neural Networks**

  Did this as a project for the Coursera Course on Deep Learning and Neural Networks by Andrew Ng. Used the knowledge of Tensorflow, Python, NumPy in building a Neural Network for image Recognition that could achieve up to 80% accuracy.

- **Empty Parking Space Detector**
  Did this as a project for "Joy of Engineering" course at the university. Project made use of Arduino and Ultrasonic Sensor to detect presence of object. Learnt debugging Real Life hardware projects when the sensor started misbehaving.
- **Android ROMs**
  Learnt building Android ROMs and working on AOSP. Built various Open Source Android ROMs including CyanogenMod (now LineageOS), Resurrection Remix etc. Working on them also gave me a big picture view of how Linux Kernel works.