Rohit Naik Jarupla
Senior Undergrad, Computer Science,
Indian Institute of Technology Delhi

Ph: +91 9810422284
cs1140224@cse.iitd.ernet.in
http://www.cse.iitd.ernet.in/∼cs1140224/

Education

Indian Institute of Technology, Delhi — New Delhi, India
Bachelor of Technology — *2014 - 2018*
Relevant Courses: Cloud Computing, Artificial Intelligence, Machine Learning, Operating Systems, Analysis & Design of Algorithms, Database Management, Computer Networks, Parallel Programming

Hyderabad Public School, Begumpet — Hyderabad, India
ICSE Boards — *2002 - 2012*
CGPA: 9.47

Internships

- **Software Engineer** — Infosys InStep, Bangalore
  REST Framework for Named Entity Extraction — *Summer 2017*
  - Built a scalable RESTful API Service to perform NER, and return performance metrics such as Recall & Precision, using custom models. To be used by Infosys and its clients
  - Extensively experimented with Python Libraries RasaNLU, StanfordNER, MITIE, Spacy, etc.
  - Used Spacy for NER, Flask for server management & Flaskrest-Plus for API documentation
- **Web Developer** — Goodera, Bangalore
  Dashboard Development in JavaScript — *Summer 2016*
  - Developed Dashboards, which contain Cards & interactive Charts & Tables, to represent clientele's individual investment & impact on the CSR sector
  - Extensive use of JS and its Libraries (C3, Jinq, Moment, etc.) for data analysis and presentation & AdminLTE Template for webpage layout

Projects

- **Operating System - xv6** — IIT Delhi
  course project under Prof. Sourav Bansal — *Jan 2017 - May 2017*
  - Built a Shell based Kernel. Supported basic I/O & preemptive & non-preemptive threads using coroutines and fiber
  - Implemented Leslie Lamport's SPSC queue to exchange messages between 2 cores. Written in C & x86
- **World Development Indicator** — IIT Delhi
  course project under Prof. Maya Ramanath — *March 2017 - April 2017*
  - Database Driven info-graphic website representing indicators of development from hundreds of countries
  - Relational Database concepts, PostgreSQL, HTML/CSS, JS & PHP were used

- **Parallel Genetic Solution to TSP** IIT Delhi
  course project under Prof. Subodh Sharma *Feb 2017 - March 2017*
  - Implemented a Parallel Solution to the Travelling Salesman Problem using OpenMP (C++)
  - Experimented with Crossover (Genetic Algorithm) techniques - Partially Mapped Crossover, Cycle Crossover & Edge Recombination Crossover
- **Machine Learning** IIT Delhi
  course projects under Prof. Parag Singla *Jan 2017 - May 2017*
  - Built a Neural Network to predict the final game outcome from a given intermediate board configuration of Connect-4
  - Used Support Vector Machines (Linear & Gaussian Kernels) to classify Attractive Faces
  - Used Principal Component Analysis (PCA) in a Facial Recognition Software to greatly reduce the feature space
- **Artificial Game Player for TAK** IIT Delhi
  course project under Prof. Mausam *July 2016 - Sept 2016*
  - Designed a bot for the Real Time Strategy Game, TAK, using Adversarial Search (Depth-Limited MiniMax Search)
  - Implemented Alpha-Beta Pruning and Transposition Table to improve time complexity and Genetic Algorithm to drastically improve the evaluation function.

IIT Delhi Thesis

- **Software Defined Networks & Virtualization** IIT Delhi
  thesis under Prof. Suresh Chand Gupta *July 2017 - Present*
  - Adapt inspiring features of various reliable & scalable cloud solutions like Azure, AWS & GCP to Baadal (IITD's Cloud Service)
  - Specifically, use modern & innovative SDN & NFV implementations of these services to improve Baadal

Awards, Grants & Honours

KVPY National Scholarship 2012
*Secured All India Rank 5**

National Science Olympiad 2012 July 2012
Secured Rank 69

National Cyber Olympiad 2011 July 2011
Secured Rank 252

Silver Medal for Academic Excellence March 2012

Programming Skills

Extensive	Java, JavaScript, Python, C++, PostgreSQL
Intermediate	ARM/X86 Assembly, SML, VHDL, Matlab, HTML/CSS
Basic	Shell Script, PHP