

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 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
 - Used Alpha-Beta Pruning, Transposition Table & GA to improve time & evaluation function
- Elevator Simulation Model** IIT Delhi
course project under Prof. Mausam *Aug 2016 - Nov 2016*
 - Simulate an Elevator's Motion to optimize total electricity consumption and total waiting time
 - Modeled the Problem as a Markov Decision Process. Implemented the UCT Algorithm with function approximation & memory optimization to manage such a huge state space

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 <i>Secured All India Rank 5*</i>	2012
National Science Olympiad 2012 <i>Secured Rank 69</i>	JULY 2012
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