

# Aman Bansal

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## EDUCATION

### IIIT HYDERABAD

B.TECH IN COMPUTER SCIENCE

Expected May 2020 | Hyderabad, India

CGPA: 9.02

### MAHARAJA AGARSAIN PUBLIC SCHOOL

SENIOR SECONDARY, CBSE

Grad. May 2015 | Delhi, India

Percentage: 92.4/100

SECONDARY, CBSE

CGPA: 9.8/10

## COURSEWORK

Data Structures and Algorithms

Structured Systems Analysis and Design

Computer System Organization

Operating Systems

Database Systems

Distributed Systems

Graphics

Artificial Intelligence

Machine Learning

Advanced Computer Networks

System and Network Security

Information Security

Information Retrieval and Extraction

Digital Logic and Processors

Basic Electronic Circuits

Discrete Mathematics

Linear and Abstract Algebra

Complex Analysis

Probability Theory

## SKILLS

### PROGRAMMING

ADVANCE:

C • C++ • Python • HTML • CSS •

Javascript

MODERATE:

MySQL • Flask • NodeJS • BASH •

Matlab • Git • Jupyter • Docker •

Kubernetes • Ansible

BEGINNER:

Java • Ruby • Ruby on Rails •  $\LaTeX$

## EXPERIENCE

### SAMSUNG | SOFTWARE ENGINEERING INTERN

May 2019 – July 2019 | Bengaluru, IN

- Worked in the IoT Services & Platforms team on optimizing the CI/CD pipeline for faster code deployments using Kubernetes
- Wrote Ansible playbooks to deploy, configure and manage servers
- Designed and developed automated deployment and scaling processes based on Docker and Ansible
- Deployed and Orchestrated the applications with Kubernetes
- Documented the process and steps required to spin a whole new environment for testing purpose

## PROJECTS

### IDS FOR WIRELESS SENSOR NETWORKS

Designing and analyzing an intrusion detection scheme for detecting multiple attacker nodes in hierarchical wireless sensor networks and preventing them from various kinds of hole attacks.

### MEDICAL ENTITY RECOGNITION FROM TWEETS

Recognizing and classifying the portions of social media content which span medical entity mentions into relevant categories, namely drugs, diseases, symptoms, etc, by leveraging deep learning models.

### MACHINE TRANSLATION SYSTEM

Created a Phrase-Based Statistical Machine Translation (PBSMT) System that generates Hindi-English translations using statistical methods based on bilingual text corpora.

### WIKIPEDIA SEARCH ENGINE

Developed search engine for Wikipedia dump (65GB) using parallelization, external merge sort and secondary indexing with query time under 5s. Ranked results by calculating relevance of search query to results using tf-idf scores.

### C-SHELL

Developed an interactive user defined shell in C with features like pipelining, redirection, signal handling, etc.

## ACHIEVEMENTS

### ACADEMICS

#### DEAN'S MERIT LIST

Selected in Dean's List for academic excellence in the year 2016-17, 2018-19

#### JEE ADVANCED 2016

Ranked 1408 among 150,000 students

### MEGATHON

#### HYDERABAD 2018

One of the finalists in the EA Megathon Challenge based on the theme "It's inside the Schrödinger's Box".