

# Karthik Rao Minupala

4th year undergraduate

Indian Institute of Technology, Bhubaneswar

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## ACADEMIC DETAILS

YEAR	DEGREE / EXAM	INSTITUTE	GPA / MARKS (%)
2014 - present	B. Tech in Computer science	IIT Bhubaneswar	7.01/ 10
2014	Class 12, AP	Narayana Junior College, Madhapur	97
2012	Class 10, AP	Deeksha high school, Warangal	97 / 10

## SCHOLASTIC ACHIEVEMENTS

- Secured **AIR 2592**, among 150,000 applicants, IIT Joint Entrance Exam Advanced (2014).
- Scored **199 marks**, 0.21% among 12 lakh applicants, IIT JEE Mains (2014).

## INTERNSHIP

- International Institute of Information Technology, Hyderabad.** Summer Internship (May – July 2017).
  - Project name: **Automation of Virtual Labs Cluster Setup**
    - Automated the Servers setup of Virtual labs(Cluster) using ansible (Configuration management tool). This ansible creates an environment for automation. The whole of configuring servers is done using this ansible tool. This is done in Linux operating system(Centos).
    - Automated the whole setup such that we just need to clone it from git-hub and run make and sets up with the configuration required.
  - Project name: **Visualization of System Performance Results**
    - Analyzed the system performance using ELK stack and nmon tools and also tried to automate the same.

## ACADEMIC PROJECTS AND OTHERS

- Database systems lab project: **Hotel management system** (Oct 2016)
  - Made A web application for a typical hotel needs for maintenance. It includes many intuitive features.
  - Designed a good database for system in 3NF which avoids data redundancy and maintains its integrity.
- Case study and seminar presentation on **Google Page Rank Algorithm** (Oct 2015), Studied about how indexing is done in Page-rank Algorithm.
- B. Tech project: **Forensic Handwriting Recognition** (August 2017 - present)
  - Objective: Detection of intrusions in backbone network and LAN of Phasor measurement units.
  - The traffic in nodes are monitored and learning model searches for malicious patterns and activities and report the possible treats. A model to detect false data injection after recognizing malicious traffic.

## TECHNICAL SKILLS

- Languages:** C, C++, Python, SQL, PHP, Assembly (Intel 8085, 8086).
- Web:** HTML, CSS, JavaScript.
- Databases:** Oracle 12c,, MySQL.
- Tools:** Matlab, Git.
- Courses:**

Programming and Data structures	Algorithms design and analysis	Machine learning
Database systems	Computer networks	Operating systems
Computer architecture	Theory of computation	Compiler design
Graph theory	Computational geometry	Sensor networks
Discrete structures	Probability and statistics	

## POSITIONS OF RESPONSIBILITY

- General Secretary Sports** (March 2016 - March 2017 )
  - Successfully organized the hostel day for the academic year 2017..
  - .
- Coordinator, Web and Design, Wissenaire** (Sep 2014 - Mar 2017)

## EXTRA CURRICULAR ACTIVITIES

- Member of **Athletics team**
  - Represented IIT Bhubaneswar in 51st Inter iit sports meet held at IIT Kanpur.
- Active participation in sports
  - Team member in Hockey for computer science department team.
  - Played in inter-hostel cricket championships .

## INTERESTS AND HOBBIES

Very enthusiastic in problem solving for competitive coding, building applications, deep learning applications.  
I like to play and watch cricket, volleyball. I'm a movie buff and listen to music a lot.