

RESUME

Personal Profile:

Name : K. Roopesh Reddy
Gender : Male
Date of Birth : 08.09.1994.
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Educational Qualification:

Currently in 3rd year B.Tech in Computer Engineering from **Indian Institute of Information & Technology (Design & Manufacturing) Kancheepuram**, declared as an institute of National Importance by the Government of India.

Areas of Interest:

Web Development, Human Computer Interaction, Computational Linguistics, Data Mining and Machine learning in general with more focus on Data Structure & Algorithms, Theory of computation and compiler design.

CGPA:

8.98 till the end of 5th semester on the scale of 10,

With equivalent % = $9.5 * \text{CGPA}$.

Core Courses Completed:

- Computational Engineering (C language).
- Object oriented programming (C++ language).
- Computer organization.
- Basics in Computer Engineering.
- Data Structures and algorithms.
- Theory of Computation.
- Compiler Design.
- Computer Networks
- Operating Systems.

Programming Languages Known:

C, C++, Assembly (Microprocessor 8086), Verilog, HTML, CSS, PHP, MYSQL, Perl, Python, Java.

Software Proficiency:

- AUTO-CAD.
- Multisim, Express PCB, PSpice, Cadence, LabView, Xilinx design suite.
- Joomla, MATLAB, latex, MS - office, Xampp server management, Eclipse.

Academic Achievements:

- Scored 9.6 grade point (GP) in Secondary School Examination with 10 GP in Math's and Science (CBSE).

- Scored 96.6% in Senior Secondary School Examination, with an average of 97% in Math's, Physics and Chemistry.
- Came in top 2 percentile in All India Engineering Entrance Exam (AIEEE), one of the most competitive exams in India.

Projects Undertaken:

Academic Projects:

- Conceptualization, coming up with 5 new raw ideas that would really help the mankind.
- Bio-mimicry project, bio-mimicry of cactus done to come up with two new product models.
- Research on formal methods, learning the working and development of formal methods like RAISE and VDM, and coming up with a class which is subset of all the best features an ideal formal language should have.
- Developed an IRCTC GUI using python, where in a logged in person can book, unbook and search for trains present in our database.
- Research about the scheduling algorithms that are used by Debian, (a linux operating system).

Co-Curricular Projects:

- Developed a website (one of the team member of the developing team) for Institute's techno-cultural fest Samgatha 2014, with URL as www.samgatha.org.
- Developed Students Portal (an interactive social network for students of IIITDMK) for our Institute, mostly working on its backend and to come up with an algorithm and implementing it for determining popular and important Posts.

Internship and Industrial Experience:

Internship:

- Did an Internship in Indian Institute of Technology Bombay (IITB) during summer 2014.
- The Internship was under Swarachakra team of IDC department of IITB.
- The project of Internship was to come with a Synchronous Approach which could be used for **Word prediction and completion** for Indic Language Text Entry.
- Remodeled the **Trie Data structure** effectively so that it may be efficiently used for word prediction and completion.
- The approach was highly efficient and generic, in a way that it was applicable to all Indian Languages.

Industrial Experience:

- Went for an Industrial Visit to **Polaris Design Center** (a financial software development Company).
- Gained Knowledge about their motives, working principles, thinking process and modals they use for software development.

Responsibilities Held:

- **Volunteer** of Samgatha (Institute's Techno-cultural fest) 2013.
- **Organizer** of a Technical Event called Eco-Nivas and Pro-Vikas in Samgatha 2013.
- **Class Representative** 2014.
- **Coordinator** of Zerone Club (Coding Club) 2014.
- **Organizer** of various Sessions on Web Development in Zerone Club 2014.
- **Organizer** of a Technical Event called Bug-D-Bug in Samgatha 2014.
- A member of institute's **Web-Ops** team.
- **Coordinator** and **Technical support** team for Students Elections – 2014, IIITDMK.
- **Head Coordinator** of Zerone Club (current).
- **Organizer** of a Technical Event called CODE-ART in Samgatha 2015.

Co-Curricular activities:

- Participated in android workshop, and several coding events like debugging and triathlon etc. held in Shastra Technical fest of IIT Madras.
- Participated in Google I/O meet held in IIT Bombay.
- Participated in Game Design workshop conducted in Design and Degree Show (DDS) by IDC IIT Bombay.
- Have represented school in several debate and quiz competitions.
- Won several art competitions in School and College.

Hobbies:

- Reading books, web development, coding, singing, playing Cricket, Basketball, Badminton, playing piano, Mimicry (celebrities and common people), sketching and art making.