

# Ashwin Joisa

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## EDUCATION

**National Institute of Technology, Karnataka**, Surathkal, Mangalore, India

- B.Tech in Computer Science and Engineering, Sophomore year Aug 2016 – Present  
CGPA: **9.90/10.00** (December 2017)

Secondary High School - **Sri Kumaran Children's Home**, Bangalore, India (CBSE)

- Class XII - 95.6% (Studied Computer Science) Jun 2014 – Mar 2016

High School - **Sri Kumaran Children's Home**, Bangalore, India (CBSE)

- Class X - CGPA: 9.2/10.0

## TECHNICAL SKILLS

- Languages - C, C++, Python, Erlang
- DBMS - Basics of SQL
- Tools/Frameworks - Git, STL, OpenMP.

## RELEVANT COURSES

Data Structures and Algorithms, Concrete Mathematics, Design and Analysis of Algorithms, Software Engineering, Object Oriented Programming, Operating Systems, Data Communication

## PROJECTS UNDERTAKEN

All projects and work available on [GitHub](#).

- [Competitive Programming](#) - Solution to the problems I have solved in selected competitive programming websites.
- [Multi-Processing using OpenMP](#) - Implemented the parallelized version of Radix Sort, Floyd-Warshall (shortest path), Matrix Multiplication, using OpenMP in C++.
- [LFU Cache](#) - Implemented O(1) seek, insert and remove implementation of Least Frequently Used (LFU) Cache in C++.
- [Handwritten Equation Solver \(On going\)](#) - An application to solve handwritten mathematical equations using deep learning algorithms.
- [Automated Lab Program Evaluator \(On going\)](#) - This software automates the process of evaluating programs written by student in a lab course. Built in C++, using the object oriented design.
- [Djangonautic](#) - A blog website created using Django.
- [Todo App](#) - A To-do list app implemented using NODE.js
- [Assignment Judge](#) - Automates the checking of assignment codes against a solution code, and generates results (Correct/Wrong answer and execution time), written in Erlang. Makes use of functional programming concepts such as higher order functions.

## ACHIEVEMENTS AND AWARDS

- **Ranked 1 in India (Global : 57) in IEEEExtreme 11.0** Programming Competition
- **Ranked 7 out of 67 teams in ACM ICPC Kharagpur Regionals 2017.**
- Participated at **ACM ICPC Amritapuri Regionals 2017.**
- **Expert(Blue)** rated on [Codeforces](#). Rating - **1815** (Max: **1867**).
- **5 stars** on [Codechef](#). Rating - **2019** (Max Rating: **2209**, **6 stars. Rank: 192(550) in India(Global)**).
- Awarded CBSE Merit Certificate for being among **top 0.1%** in Computer Science in Class XII (Score 100/100).
- Qualified for the National level NTSE examination in Class VIII.
- KVPY Scholar (All India Rank: 744) in Class XII.

## EXTRA CURRICULAR ACTIVITIES

- Executive Member at [IEEE NITK](#) Student Branch.
- Executive Member at [Web Enthusiast's club NITK](#).
- Active on online [competitive programming](#) websites [Codechef](#), [Codeforces](#), [Hackerrank](#), [Hackerearth](#).