

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, NODE.js, HTML.
- 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 [Git](#).

- [Todo App](#) - A To-do list app implemented using NODE.js
- [Multi-Processing using OpenMP](#) - Implemented the parallelized version of the following algorithms, using OpenMP in C++.
 - Radix Sort
 - Floyd-Warshall shortest path
 - Matrix Multiplication
- [LFU Cache](#) - Implemented O(1) seek, insert and remove implementation of Least Frequently Used (LFU) Cache in C++.
- [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.
- [ATCAS](#)(Air Traffic Control and Administration System) - Implemented in C++, makes use of graphics, classes, inheritance and files. Simulates a basic version of the display board involved in a typical ATCAS.

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.
- Qualified for ACM ICPC Amritapuri Regionals 2017.
- **Expert(Blue)** rated on [Codeforces](#). Rating - **1839** (Max: **1867**).
- **6 stars** on [Codechef](#). Rating - **2209** (Max: **2209**). Rank: 192(550) in India(Global) overall on Codechef.
- Awarded CBSE Merit Certificate for being among top 0.1%in the subject of Computer Science in XII (Score 100/100).
- Qualified for the National level NTSE examination in Class VIII.
- Cleared the final (interview) round of KVPY (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](#).
- Play badminton, table tennis, tennis and football.