

# Ashwin Joisa

#B211, Mega Tower 2, NITK, Surathkal, India  
ashwinjoisa@gmail.com • +91 9482851775 • 21 April 1998

## EDUCATION

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

- B.Tech in Computer Science and Engineering, Pre-final year Aug 2016 – Present  
CGPA: **9.69/10.00** (May 2018)

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 - <https://github.com/Aj163>.

- **Automated Lab Program Evaluator** - This software automates the process of evaluating programs written by student in a lab course. Built in C++, using the object oriented design.
- **LFU Cache** - Implemented O(1) seek, insert and remove in a Least Frequently Used (LFU) Cache in C++.
- **Multi-Processing using OpenMP** - Implemented the parallelized version of Radix Sort, Floyd-Warshall (shortest path), Matrix Multiplication, using OpenMP in C++.
- **Handwritten Equation Solver** - An application to solve handwritten mathematical equations using deep learning algorithms.
- **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 2** out of 339 participants of **NITK Surathkal** in **codersBit**, which is a programming competition conducted by [interviewBit](#).
- **Ranked 7** out of **67** teams in **ACM ICPC Kharagpur Regionals 2017**.
- Participated at **ACM ICPC Amritapuri Regionals 2017**.
- **Candidate Master (Purple)** rated on [Codeforces](#). Rating - **1960** (Max: **1965**).
- **5 stars** on [Codechef](#). Rating - **2053** (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](#).
- Other hobbies include playing badminton, tennis and the keyboard.