# SHAILENDRA DOHRE

SENIOR YEAR UNDERGRADUATE ◇ COMPUTER SCIENCE AND ENGINEERING
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## EDUCATION

| Year | Degree/Certificate | Institute | CGPA/% |
|---|---|---|---|
| 2018 - Present | B.Tech(CSE) | Indian Institute of Technology, Kanpur | 6.63/10 |
| 2018 | CBSE(XII) | Indian International Public School, Dabra, Gwalior(MP) | 80.4% |
| 2016 | CBSE(X) | Indian International Public School, Dabra, Gwalior(MP) | 9.2/10 |

## ACHIEVEMENTS

- 2018 - **All India Rank 3909**, Joint Entrance Examination(Advance) among 2,00,000 candidates.
- 2018 - **All India Rank 8683**, Joint Entrance Examination(Mains) among 1.5 million candidates.

## PROJECTS

**C++ Compiler** Feb 2021 - May 2021
*Course Project, IIT Kanpur*

- Worked in a team of 4 to build a C++ compiler having source code C, Implementation language C++ and Target language x86 Assembly.
- We Used **Lex** and **Yacc** tools to make the compiler and we also used **Make** to build the source code.
- Worked on Lexical analyzer, Parser/Syntax analysis, Semantic analyzer and Machine code generation.

**Design and Fabrication: Balsa** May 2019 - July 2019
*Aeromodelling Club, IIT Kanpur*

- Worked in a team of 5 to design and fabricate an rc-biplane model using Balsa wood primarily.
- Used XFLR 5 software to simulate and analyse airplane designs with varying dimensions and airfoil designs and learnt feasibility of aircraft by studying the parameters graph.
- Fabricate various parts of a biplane model - wings, vertical and horizontal stabilizers, fuselage and nose.

**Dive Deep into Competitive Programming** Jan 2019 - April 2019
*Association For Computing Activities, IIT KANPUR*

- Learnt various time and space efficient algorithms of searching and sorting and also **vector** and **map**.
- Learnt various techniques like **DP**, **Greedy**, **BFS**, **Dijkstra**, etc. which are useful in Competitive Programming.

## TECHNICAL STRENGTHS

| | |
|---|---|
| **Programming Languages** | C/C++, Python, Bash Script, HTML, CSS |
| **Software and Tools** | SQLite, MongoDB, Lex, Yacc, LaTex, Docker hub, AutoCad, XFLR 5 |

## RELEVANT COURSES

| | |
|---|---|
| Data Structure and Algorithm | Operating System |
| Compiler Design | Principles of Data Base Systems |
| Fundamental of Computing | Introduction to Machine Learning |
| Software Development and Operations | Introduction to Mathematical Logic |
| Computer Organization | Discrete Mathematics |
| Linear Algebra and Ordinary Differential Equations | Real Analysis and Multivariable Calculus |
| Introduction to Electronics | |