

# DHRUV SOMANI

Surat, India

(+91) 99786 51100 ◇ dsforweb@gmail.com ◇ dhruvsomani.me

Codeforces: dhruvsomani ◇ Github: dhruvsomani ◇ Linkedin: somani-dhruv

## EDUCATION

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**B. Tech., Indian Institute of Technology, Guwahati**

*2020 - Expected 2024*

Major in Computer Science and Engineering

CGPA: 9.57/10

Minor in Robotics and Artificial Intelligence

**Sanskartirth Gyanpeeth School, Surat**

*2018 - 2020*

Higher Secondary, CBSE Board

95.2%, School Rank 1

## EXPERIENCE

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**Web Developer**

*June 2021 - Present*

Student's Web Committee, IIT Guwahati

Worked on a hostel return and application portal. Integrated the codebase and assisted team members with code review. Wrote modules for authentication, control flow and database storage.

**Competitive Programmer**

*2017 - Present*

Ranked Master on Codeforces with a max. rating of 2186. Participated in 75+ programming competitions which involve the development and implementation of time and memory efficient algorithms.

**Open Source Software Engineer at coala**

*October - December 2018*

Google Code-in

Selected as one of the 108 finalists out of 3000+ programmers.

Worked in a collaborative environment and contributed to coala - an open source language analysis toolkit written in Python and its sister projects. Added multiple features, enhancements and unit tests and improved overall code quality.

## ACCOMPLISHMENTS

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- **Represented India** and won a **Bronze Medal** at the Asia-Pacific Informatics Olympiad, 2018.
- Achieved All India Rank 699 in the JEE Advanced examination among 150,000 candidates.
- Selected as a **Reliance Foundation Scholar** in Artificial Intelligence and Computer Sciences, 2020.
- Attained a rank in top 30 in Indian National Olympiad in Informatics in 2018 and 2019 and ranked 8<sup>th</sup> at the **International Olympiad in Informatics Training Camp**.
- Secured a rank in **top 30** in Gujarat in the Regional Mathematics Olympiad in 2016 and 2017.
- **Global Rank 43**, Google Kick Start, 2021
- Qualified for **Round 3** in Google Code Jam
- 26th Rank in ICPC Amritapuri Regionals, 2021
- Kishore Vaigyanik Protsahan Yojana Scholar

## TECHNICAL SKILLS

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**Programming Languages**

C, C++, Python and MATLAB

**Programming Skills**

Data Structures and Algorithms, Problem Solving, Stress-testing, Object Oriented Programming, Database Handling, Scripting, VCS

**Mathematics**

Discrete Mathematics, Number Theory, Linear Algebra, Calculus

**Web Technologies**

Django, HTML, CSS and Javascript

## PROJECTS

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**Statik**

*October - December 2018*

Multipurpose static website generator aimed at web-developers, which allows custom data models. Worked on multiple features including template auto-generation and added unit tests.

**Sliding Puzzle Solver**

*April 2017*

Developed an 8-sliding puzzle solver in C++ using an A\* best-first search algorithm and experimented with many heuristic functions with different parameters and features to find the optimal one.