

# DHRUV SOMANI

Surat, India

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## EDUCATION

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

2020 - Expected 2024

Major in Computer Science and Engineering

CPI: 9.57/10

Minor in Robotics and Artificial Intelligence

## EXPERIENCE

**Backend Software Engineer**

June 2021 - Present

Students' Web Committee, IIT Guwahati

Python, Django, SQL, JavaScript

- Developed a hostel application portal in Django to digitize the hostel application and allotment process of the institute which has already been used by 1500+ students and the administrative body.
- Wrote the major portion of the backend of the website with a special emphasis on writing reusable code.
- Acted as the point of contact with the Hostel Affairs Board to understand their requirements and issues.

**Core Member, Organizing Team**

January - September 2021

Technothon

JavaScript, HTML, CSS

- Created puzzles and challenges for one of the largest logic-based competitions for high school students.
- Used an open-source project to create a web-app for a set of logical puzzles for the participants.

**Software Engineer**

October - December 2018

Google Code-in

Python

- Selected as a **finalist** out of 3000+ programmers for exceptional contributions to open source software.
- Worked in a collaborative environment and contributed to *coala* - a language analysis toolkit.
- Added multiple features, enhancements and unit tests and improved overall code quality.

## SOLO PROJECTS

**Competition Management System**

Python, Tkinter, Django, SQL, JavaScript

Successfully developed and deployed a competition management system in Python with a user-friendly, Tkinter based GUI and SQLite integration to manage participants, teams and scores for an onsite event with 300+ participants. Also, created a Django project to host the live leaderboard online.

**Sliding Puzzle Solver**

C++

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

## ACHIEVEMENTS

- **Represented India** and won a **Bronze Medal** at the Asia-Pacific Informatics Olympiad, 2018.
- Attained a rank in top 30 in the Indian National Olympiad in Informatics in 2018 and 2019 and ranked **8<sup>th</sup>** at the **International Olympiad in Informatics Training Camp**.
- 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.
- **Global Rank 27, 43 & 77**, Google Kick Start, 2021
- Qualified for **Round 3** in Google Code Jam
- **26<sup>th</sup>** Rank in ICPC Amritapuri Regionals, 2021
- Kishore Vaigyanik Protsahan Yojana Scholar

## TECHNICAL SKILLS

**Programming Languages**

C, C++, Python, JavaScript and MATLAB

**Programming Skills**

Data Structures and Algorithms, Object Oriented Programming  
Problem Solving, Unit-testing, Database Management

**Machine Learning**

scikit-learn, pandas, NumPy, matplotlib, SQL, Jupyter

**Web Technologies**

Django, SQL, HTML, CSS and JavaScript