

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 since been used by 1500+ students.
- Worked on authentication, validation and database management. Assisted teammates with code review.
- Acted as the point of contact with the Hostel Affairs Board to understand the requirements and issues.

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.

ACHIEVEMENTS

- **Represented India** and won a **Bronze Medal** at the Asia-Pacific Informatics Olympiad, 2018.
- Attained a rank in top 30 in Indian National Olympiad in Informatics in 2018 and 2019 and ranked **8th** at the **International Olympiad in Informatics Training Camp**.
- Achieved All India Rank 699 in the JEE Advanced examination among 150,000 candidates.
- Secured the **1st position** at the Pi Quiz Nationals organized by **IIM Indore** which was based on economics, trading, game theory, and general knowledge.
- Secured a rank in **top 30** in Gujarat in the **Regional Mathematics Olympiad** in 2016 and 2017.
- 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
- **26th** Rank in ICPC Amritapuri Regionals, 2021
- Kishore Vaigyanik Protsahan Yojana Scholar

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.

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, SQL, matplotlib, Jupyter

Advanced Mathematics

Probability Theory, Linear Algebra, Discrete Mathematics

Web Technologies

Django, HTML, CSS and JavaScript