

# JIVITESH JAIN

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## EDUCATION

B. Tech. (Honours) in Computer Science

**International Institute of Information Technology, Hyderabad**

2018 - 2022 (Expected)

CGPA 10.0/10.0

- Dean's List 2018-19 - awarded to the top 5% students in class.
- Undergraduate researcher in robotic vision under Prof. K. Madhava Krishna at the Robotics Research Center.
- Coordinator of the Art Society and Student Mentor for the freshmen.
- Runner up in Megathon 2019, the flagship hackathon of E-Cell, IIIT Hyderabad, in the PwC problem category.

High School

**Amity International School, Mayur Vihar**

2018

97.2%

SAT 1510

JEE Main 564

JEE Adv. 2156

- Was awarded the Founder's Trophy for academic merit.
- Received a scholarship from the Goethe Institute to attend a language course in Germany, based on the *Fit in Deutsch-2* exam.

## EXPERIENCE

MLH Fellow

**Major League Hacking**

June 2020 - Present

Remote

- Contributing to open source projects of the Julia Programming Language as part of a team of 12 fellows.
- Currently redesigning and expanding the scope of several modules within JuliaImages. Implemented the multi-scale structural similarity index to quantify image quality.

Research Assistant

**Signal Processing and Communication Research Center, IIIT Hyd.**

December 2019 - April 2020

Hyderabad

Programmed microcontrollers and designed IoT devices for collecting data about the energy and water distribution and air and water quality on campus, as part of the Smart Campus Project.

Full Stack Web Development Intern

**KareXpert Technologies**

June 2019 - July 2019

Gurugram

Designed and developed a web application for a job application portal for hospitals using the Django Web Framework in Python.

Head of Technical Team (Previously, Member)

**Entrepreneurship Cell, IIIT Hyd.**

January 2019 - Present

Hyderabad

- Co-leading a team of 4 to build and manage the technical infrastructure for all the activities of the E-Cell.
- Developed a web application for managing over 400 participants and their submissions for Megathon 2019.
- Designed and built the current E-Cell website.

## PROJECTS

**Kishmish - Shell for Linux**

A *bash*-like command interpreter, written in C, with support for process management, piping and redirection and built-in as well as system commands.

**CARing - Insurance Claim Automation System**

- A computer vision system for identifying damage in vehicle images and sending insurance claims.
- Web application in React, mobile application in React Native and the back-end written in Django.
- Followed the *agile* software development life cycle in a team of 4, working with the client to make design decisions and driving the project.

**Optimised In-Memory Key-Value Store**

An in-memory, thread-safe, ordered-map data structure based on compressed tries and binary search trees, optimised for speed and memory efficiency, implemented in C++.

**Computer Vision based Word-Search Solver**

An OCR application for solving word-search puzzles using supervised machine learning (K-Nearest Neighbours), built using OpenCV.

**Platformer Game for CLI**

Written in Python without the use of external libraries - with physics, randomness, power-ups, parallax, and a modular, object-oriented design.

## SKILLS

Programming and Scripting

C, C++, Python, JavaScript, Julia, Shell Scripting

Web Development

HTML, CSS, Django, Flask, Express, NodeJS, React

Computer Systems

Operating System Concepts, Linux, Computer Systems Organization, x86-64 Assembly

Miscellaneous

Data Structures and Algorithms, Object-Oriented Programming, Software Design, Database Design, SQL, Git, Arduino Programming, Agile Methodology

## PROG. COMPETITIONS

**ACM ICPC 2018**

Qualified for the Asia-West on-site regional round, securing the 71<sup>st</sup> place amongst 270 teams.

**Code Forces** @jiviteshjain

Peak rating: 1797

**With Google** @jiviteshjain99

- Kick Start: 398<sup>th</sup> place in Round D and 474<sup>th</sup> in C.
- Participated in other Kick Start rounds, Code Jam, Hash Code and Foo Bar.