

# Anish Gulati

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## Education

- 2016–present **B.Tech and M.S. in Computer Science and Engineering**, *International Institute of Information Technology(IIIT)*, Hyderabad, CGPA - 8.63/10.
- 2014–2016 **Senior Secondary, CBSE**, *Bhupindra International Public School(BIPS)*, Patiala, Percentage - 91.
- 2013–2014 **Secondary, CBSE**, *Bachpan English School*, Sangrur, CGPA : 9.4/10.

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## Work Experience

### Google Summer of Code

- May 2019 - present **Export animation for Web**, *Synfig*, Open source animation software.  
Developing a plugin which will allow export of Synfig format animations for web through Lottie format

### Research Project

- May 2018–Dec 2018 **Automating scheduling strategies for OpenMP Programs**, Prof. Suresh Purini, *Computer Systems Group (CSG)*, IIIT Hyderabad.  
Working to automate the number of threads and scheduling strategies to run parallel programs in OpenMP so as to get most amount of parallelism

### Teaching Assistant

- July 2019 - present **Compilers**, Prof. Suresh Purini, *Computer Systems Groups*, IIIT Hyderabad.
- Aug 2018–Nov 2018 **Computer Programming**, Prof. Vineet Gandhi, *Centre for Visual information technology(CVIT)*, IIIT Hyderabad.

### Full Stack Developer

- Aug 2017–Nov 2017 **Vehicle Tracking System App**, *Eyedentify Systems*, Banjara Hills, Hyderabad,  
Developed an Android application which provides real-time video feed, panic buttons, vehicle tracking in real time, and multiple sensors.

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## Projects

- Oct - Nov 2018 **Pokemon Decentralized App** Decentralized application involving catching Pokemon, trading/raising of Pokemon using blockchain-based Ethereum platform.
- Sept 2018 **Auction Smart Contract** Blockchain based smart contract for conducting an auction for a set of bidders and a set of items, implemented in solidity.
- Feb 2018 **Tic-Tac-Toe AI Bot** AI Bot based on concepts of Heuristics, Iterative Deepening and Min-Max algorithm with Alpha-Beta Pruning in Python.

- Feb 2018 **Proxy Server** Multi-threaded HTTP proxy server with caching, blacklisting implemented via socket programming and synchronization using mutex locks.
- Jan 2018 **File Transfer System** Establishes both persistent and non persistent connections for file transfer between client and server.
- Sept - Oct 2017 **C Shell** Interactive user defined shell in C similar to bash, including new commands and features like input-output redirection, piping and signal handling
- March - April 2017 **Book My Show Web App** Web portal for managing ticket booking of movies using Flask as framework and is hosted on https server using nginx.
- Games
- o **Terminal Based(Python)** : Game based on Bomberman with terminal based UI without using PyGame and Curses library
  - o **OpenGL 2D Game** : 2D game based on Pacman-killer implemented in C++
  - o **OpenGL 3D Game** : 3D game based on Legend of Zelda implemented in C++ using OpenGL 4.5

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## Technical Skills

**Working Knowledge** Python, C , C++(STL), Git, Shell, SQL, MATLAB, OpenMP, HTML5, CSS, JavaScript

**Past Experience** Jquery, Flask, Racket(Scheme), OpenGL, SQLAlchemy, Android Java, Solidity

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## Relevant Coursework

**CS** Database Systems\*, Blockchain, Compilers, Parallel Scientific Computing, Statistical Methods in AI, Computer Programming, Data Structures, Algorithms, Computer Architecture, Operating System, Artificial Intelligence, Computer Networks, Graphics, Structured Systems Analysis and Design

**Electronics** Digital Logic and Processors, Basic Electronic Circuits

**Mathematics** Discrete Mathematics, Complex Integrals, Linear and Abstract Algebra

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## Achievements

**Dean's Merit List** Selected in Dean's Academic Merit List for excellence in academics

**JEE** Scored 249/360 in JEE Mains and ranked 2443/1.5 lac in JEE Advanced

**KVPY** Qualified first stage in 12th grade

**NTSE** Qualified National Talent Search Exam in 8th grade

**Codeforces** Max. Rating on codeforces: 1827

**Codechef** Max. Rating on codechef: 2139

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## Position of Responsibility

2018 Conducted Intra-college Badminton tournament

2018 Inter-college Badminton team member

2017 Felicity-Buzz(College Fest) Web Team member

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\* - Courses in Progress