

KUNAL MOHTA

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📍 Surat, India

EXPERIENCE

Software Engineer Intern

Samsung Research Institute, Bengaluru

📅 May 2020 – July 2020 📍 Remote

- Detecting phone drops and height of drops using accelerometer and gyroscope readings from IMU.
- Visualized and analyzed profiles of **300+** phone drops.
- **Techs:** Python, Java. **Key domains:** Algorithms, Data Visualization.

Software Engineer Intern

Happiest Minds Technologies

📅 May 2019 – July 2019 📍 Bengaluru, India

- Modified & trained **Mask-RCNN** model for use in a product and developed web application for the user interface.
- **Techs:** Python, NodeJS, JavaScript. **Key domains:** Computer Vision, Web development.

Google Summer of Code Student Developer

Inclusive Design Institute

📅 May 2018 – August 2018 📍 Remote

- Built a **REST API** to help developers in building inclusive software with adaptive content.
- Taught myself **test-driven development** and implemented unit, integration, and contract tests.
- **Techs:** NodeJS, JavaScript. **Key domains:** Back-end development, Open-source.

PROJECTS

Compiler Construction

Data Structures and Algorithms 📅 Feb 2020 – April 2020

- Built modules for a custom programming language's compiler from scratch.
- Implemented and used data structures like **Stack**, **Tree**, **Hashmap**.
- **Techs:** C programming. **Github Link:** bit.ly/erplang

File transfer using Selective Repeat Protocol

Computer Networks 📅 April 2020

- Transferring files from client to server, via intermediate relays, using SR protocol.
- Implemented 2 different versions for **TCP** and **UDP**.
- **Techs:** C programming. **Github Link:** bit.ly/cnbits

EDUCATION

B.E. (Hons.) in Computer Science

Birla Institute of Technology and Science, Pilani, India

📅 August 2017 – May 2021 (expected)

GPA: 9.36 / 10

SKILLS

C++ C Data structures
Algorithms HTML CSS
Javascript React.js Node.js
Python Java Git

SOFT SKILLS

Team Collaboration Versatile
Responsibility

RELEVANT COURSES

- Data Structures & Algorithms
- Object-oriented Programming
- Operating Systems
- Database Systems
- Computer Networks
- Compiler Construction

COMPETITIONS

Campus-wide winner

APOGEE Innovation Challenge

📅 Feb 2019 – March 2019

- Tackled technical issues for the open-source organization called Zulip, which is an online group chat software.
- **Techs:** Python, JavaScript.