

# MAHARSH SURYAWALA

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in LinkedIn · GitHub

Developer — Hobbyist-Musician — Life-Long Student

## ABOUT

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From dismantling video game consoles as a kid to building my own robots and writing software; The curiosity, passion, and the urge to make things work lives on.

- Driven Information and Communication Technology Engineer with a mission to create an impact and contribute to the next generation of human-technological evolution.
- Highly motivated and passionate about everything that has to do with technology and science.
- Experienced in building end to end products from concept to completion.

## EDUCATION

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### School of Engineering and Applied Science (SEAS), Ahmedabad University (AU)

Ahmedabad, GJ

B.Tech in **Information and Communication Technology**

August 2016 — June 2020

Grade Point Average:

3.54/4.00

Cumulative Grade Point Average:

3.10/4.00

## EXPERIENCE

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### Thomson Reuters

Associate Software Engineer

Ahmedabad, India

June 2020 — Present

- Designed and implemented a feature to automatically retrieve client association details from Australian Taxation Office to **ONVIO**.
- Currently working on a Thomson Reuters (Tax & Accounting) product - **ONVIO**.

### Tech Intern

December 2019 — May 2020

- Automated DevOps Artifact Migration from one artifactory instance to another, along with various package filtering options using PowerShell.
- Automated Token-Rotation from generating a new token to updating the tokens at various service endpoints, variable groups, and builds; using JFrog-REST API, Azure DevOps REST API, and PowerShell.

### Fusion Informatics Limited

Machine Learning Intern

Ahmedabad, India

May 2019 — July 2019

- The internship consisted of making a user-interactive tool that takes food images as an input and provides the corresponding nutritional and caloric information as output.

### P & K Private Limited

UI/UX Intern

Ahmedabad, India

May 2017 — June 2017

- The internship consisted of making wire-frames, automation models, designing web themes, prototyping and testing for various websites.

## PROJECTS

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### Predict Diseases From Symptoms

January 2020 — March 2020

**Skills Used:** Python, Jupyter Notebook, NetworkX, Scikit-Learn

A Disease-Symptoms Network and a system that predicts diseases from symptoms using a decision tree classifier.

### Big Data As A Service in Multiplayer Online Survival Games

August 2019 — December 2019

**Skills Used:** Hadoop, REST, Apache Spark, Python, Apache HBase, Overwolf

A distributed system that provides a service to store, retrieve, and analyse the game data of popular multiplayer online survival games such as CS: GO, PUBG, Fortnite, etc.

**Face Detection And Facial Expression Recognition** August 2019 — December 2019

**Skills Used:** Python, Jupyter Notebook, Keras, TensorFlow, OpenCV, Scikit-Learn

A systematic comparison of different machine learning & deep learning classification approaches applied to the problem of fully automatic recognition of Facial Expressions.

**Heart Disease Risk Prediction** August 2019 — October 2019

**Skills Used:** R, R Notebook

A system that predicts the risk of heart diseases in patients using information such as chest pain, cholesterol, Thalassemia, Exercise Induced Angina, ECG, etc.

**Food Image Recognition & Nutrition Visualization** January 2019 — April 2019

**Skills Used:** Python, Jupyter Notebook, Flask, Keras, TensorFlow, OpenCV, Scikit-Learn

A system that takes food images as an input, recognizes the food automatically and gives the nutritional-facts as an output.

**Microprocessor Without Interlocked Pipeline Stages** September 2017 — December 2017

**Skills Used:** Verilog, Xilinx ISE

RISC based 8-bits five stage pipelined processor, operating at 579.67 MHz clock frequency with 19 I/O pins and 28 instructions having 5 Addressing formats. Tested on Xilinx Artix-7 FPGA.

#### POSITIONS OF RESPONSIBILITY

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**Undergraduate Teaching Assistant, Ahmedabad University** August 2019 — December 2019

*Course: Data Science*

- Prepared the course material for certain modules.
- Conducted and supervised quizzes and vivas.
- Assisted in planning the learning activities.
- Supported students by providing peer-tutoring and doubt-solving.

**Volunteer, Ahmedabad University** October 2019 — December 2019

*The Seventh International Conference on Big-Data Analytics 2019*

**Course Associate, Ahmedabad University** December 2018 — January 2019

*Course: Machines, Mechanisms & Automata*

- Conducted lectures on the basics of Arduino Programming.
- Took regular attendance and reserved labs & classrooms as per the availability of students and faculties.
- Supported students by arranging doubt solving sessions.

**Student MITR as a part of Circle Of Care Initiative** January 2018 — December 2018

*The Peer Support System at Ahmedabad University*

- Mentored the freshly admitted undergraduate students during their freshman year.
- Conducted various ice breaking activities and campus tours.
- Supported students in the challenging phase of transition from School to University by providing guidance and arranging weekly meetings with faculty members.

**Volunteer, Ahmedabad University** June 2018

*Faculty Development Programme on “Advanced 5G Wireless Communications: Performance Analysis and Monte-Carlo Simulations”*

- Designed the posters, banners, brochures, and the graphical content for the Faculty Development Program.

**Lead Graphic Design Coordinator** January 2017 — December 2018

*Event Organising Team, School of Engineering And Applied Science*

## CO-CURRICULAR ACTIVITIES

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- **Winner** — Ingenious Hackathon, Ingenium - 2020 (Technical Festival, SEAS).
- Certifications:
  - 1) Algorithms Design And Analysis (Stanford Online)
  - 2) Algorithms Design And Analysis, Part-2 (Stanford Online)
  - 3) Statistical Learning; with distinction (Stanford Online)
  - 4) Machine Learning A-Z: Hands on Python and R in Data Science (Udemy)
  - 5) Deep Learning A-Z: Hands on Artificial Neural Networks (Udemy)
  - 6) Blockchain A-Z: Learn How To Build Your First Block-chain (Udemy)
  - 7) Python Programming Track (DataCamp)

## EXTRA-CURRICULAR ACTIVITIES

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- **Runners Up** — Indian Group Singing : Youth Festival, Ahmedabad University (2016-2017).
- Lead guitarist and the founding member of Infinity Band at the School of Engineering and Applied Science, Ahmedabad University.
- Performed an opening act for The Local Train Band on 20th March, 2018 and Kenny Sebastian on 20th March, 2019.

## ADDITIONAL LINKS

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-  [Personal Portfolio](#)