

MAHARSH SURYAWALA

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Education

Santa Clara University

Master of Science in Computer Science and Engineering

Santa Clara, CA, USA
September 2021 — June 2023*

Ahmedabad University

Bachelor of Technology in Information and Communication Technology

Ahmedabad, GJ, India
August 2016 — June 2020

Coursework : Data-structures & Algorithms, Machine Learning, Cloud Computing, Data Analytics & Visualization, High-performance Computing, Software Engineering, Probability & Random Processes, Internet of things

Skills

C++, C#, Python, JAVA, R, Shell, PowerShell, Verilog, SQL, JavaScript, TypeScript, NodeJS, Angular/JS, Flutter, HTML, CSS, JSON, XML, REST, Azure, AWS, Git, JFrog, LaTeX, MATLAB

Experience

Thomson Reuters International Services Private Limited (1 yr 7 mo) 🔗

Associate Software Engineer (Contract Position)

Ahmedabad, India
June 2020 — June 2021

- Involved in the development of a next-generation tax and accounting platform for Australian Taxation [ONVIO](#).
- Designed and implemented/resolved various features and bugs using C# and Angular/JS in a cross-functional agile environment to deliver high-quality software.

Technology Intern

December 2019 — May 2020

- Designed and implemented a feature to automatically retrieve client association details from Australian Taxation Office in [ONVIO](#). Thereby, saving client's time.
- Automated DevOps Artifact Migration with various package filtering options using PowerShell. Reduced package count from 78, 114 to 1968.
- Saved person-hours by automating artifactory token-rotation system; using JFrog REST API, Azure DevOps REST API, and PowerShell.

Projects

Food Image Recognition and Nutrition Visualization 🔗

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

- Utilized transfer-learning and re-trained the final layer of Inception-V3 model with additional 101 classes to automatically recognize food from images.
- Also, consumed the USDA (U.S. Department of Agriculture) Food-Data-Central-API to visualize the nutritional facts of the food.

Bilateral News (Hackathon Winner)

Ingenious Hackathon-2020

Skills Used: Python, Jupyter Notebook, Django, SciPy, BeautifulSoup, Scikit-Learn, NLTK

- Leveraged K-Means-Clustering to divide news-articles into clusters and trained the model on the same using XGBoost Algorithm.
- Built a google-chrome-extension that finds news-articles matching a query and provides two different views of the news.

Big Data as a Service (BDaaS) in Multiplayer Online Survival Games 🔗

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

- A distributed system that provides gamers a service to store, retrieve, and analyse the game data of popular multiplayer online survival games such as CS: GO, PUBG, Fortnite, etc. to improve performance.
- Configured a three node cluster using Hadoop. Used HBase to store data and Spark for analysis.

Co-Curricular Activities

Student MITR as a part of Circle Of Care Initiative

January 2018 — December 2018

The Peer Support System at Ahmedabad University

Mentored the newly admitted undergraduate students during their freshman year by conducting ice-breaking activities, campus tours, and arranging weekly meet-ups with faculty members.

Course Associate, Ahmedabad University

December 2018 — January 2019

Course: "Machines, Mechanisms & Automata"

Conducted sessions on the basics of Arduino Programming and supported students by arranging doubt solving sessions.

Hackathons & Achievements

- Top 10** : Ascend's Impact Challenge 2021 Hackathon
- HackerRank - Gold Badge Python and Gold Badge C++ developer.
- Winner** — Ingenious Hackathon, Ingenium - 2020 (Technical Festival, SEAS).
- [Machine Learning Scientist with Python Track - 23 Courses + 4 Assessments \(DataCamp\)](#)
- Runners Up** — Indian Group Singing : Youth Festival, Ahmedabad University (2016-2017).