MAHARSH SURYAWALA

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Looking for **Summer 2022 Internship Opportunities** in **Software Development domain**.

ABOUT

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 Software Engineer with a mission to create an impact and contribute to the next generation of human-technological evolution.

EDUCATION

Santa Clara University, Santa Clara, CA, USA

Master of Science in Computer Science and Engineering, Jun 2023(Expected)
Cumulative Grade Point Average - **3.88/4.00**

Ahmedabad University, Ahmedabad, GJ, India

Bachelor of Technology in Information and Communication Technology, Jun 2020
Cumulative Grade Point Average - **3.10/4.00**

TECHNICAL SKILLS

- *Languages* - C++, C#, Python, JAVA, R, Dart, Shell, PowerShell, Verilog HDL, SQL, JavaScript, TypeScript, HTML, CSS, Git, JSON, XML, YAML, LaTeX
- *Frameworks, Tools, and Libraries* - Visual Studio/Code, JFrog, Azure (Azure DevOps), AWS (Amazon API, Gateway, Lambda, S3), R Studio, Android Studio, Postman, Angular/JS, Flutter, REST, Spark, Hadoop, Docker, Django, Flask, TensorFlow, OpenCV, Scikit-Learn, NLTK

PROFESSIONAL EXPERIENCE

Associate Software Engineer | June 2020 – June 2021

Thomson Reuters International Services Private Limited, GJ, India

- Involved in the development of a next-generation **tax and accounting** platform for **Australian Taxation**
- Engineered various features and resolved bugs using **C#**, **Angular/JS, and PostgreSQL** in a **cross-functional agile environment** to deliver high-quality software

Technology Intern | December 2019 – May 2020

Thomson Reuters International Services Private Limited, GJ, India

- Designed and implemented a feature to automatically retrieve client association details from **Australian Taxation Office**. 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**

ACADEMIC PROJECTS

Food Image Recognition and Nutrition Visualization

- Utilized **transfer-learning** and re-trained the final layer of Inception-V3 model with additional **101 classes** to automatically recognize food from images
- Consumed the **USDA (U.S. Department of Agriculture) Food-Data-Central-API** and developed a **Flask Web Application** to visualize the nutritional facts of food. Thereby, providing a more **user-friendly** approach for getting nutrition facts about food

Bilateral News (Hackathon Winner)

- Leveraged **K-Means-Clustering** to divide news-articles into clusters and trained the model on the same using XGBoost Algorithm
- Built a **Django Web Application** 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

- Configured a **three-node** cluster using **Hadoop** to develop a distributed system that provides gamers a service to **store, retrieve, and analyze** game data of popular multiplayer online survival games to improve performance
- Used **HBase** to store data and **Spark** for analysis

LEADERSHIP & ACTIVITIES

- **Teaching Assistant,** *Probability & Statistics, Santa Clara University | January 2022 - Present*
- **Teaching Assistant,** *Data Science, Ahmedabad University | August 2019 – December 2019*
- **Student MITR**, *The Peer Support System, Ahmedabad University | January 2018 - December 2018*
- **Course Associate,** *Machines, Mechanisms & Automatons, Independent Study Period, Ahmedabad University | December 2018 -*

HACKATHONS & ACHIEVEMENTS

- HackerRank: **Gold Badge Python** and **Gold Badge C++** developer
- **Winner** - Ingenious Hackathon, Ingenium - 2020 (Technical Festival, SEAS)
- **Top 10/800 - Ascend's Impact Challenge 2021 Hackathon**
- DataCamp: Machine Learning Scientist with Python Track - **23 Courses + 4 Assessments**