Rachit Agarwal

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EDUCATION

The University of Texas at Arlington - May 2022   **Maverick Scholar**
B.S. in Computer Science

Coursework: Object-Oriented Programming, Algorithms and Data Structures, Operating Systems, Software Engineering, Computer Organization, Discrete Structures, Linear Algebra, Programming Languages, Computer Networks

Skills: Python, C/C++, JavaScript, Java, PHP, HTML/CSS, MongoDB, MySQL, Postgres, Content management system, Flask, Pandas, Praw, React, Django, Socket.io, Git, Splunk, AWS(Lambda, EC2, S3), MATLAB, Adobe Suite

WORK EXPERIENCE

Innovative Data Intelligence Research Laboratory   Arlington, TX
Undergraduate Research Assistant - Funded by HP, Google, and National Science Foundation   *July 2020 – Present*

- Created a python script that constantly probes **Reddit's API** to fetch political posts and comments, and updates their response in JSON file. Worked as an Undergraduate Research Assistant in **IDIR Lab** under Dr. Chengkai Li.
- Developed a data scraper for **Claimbuster** using **BeautifulSoup** which improved the scrapping efficiency by 27%.

UT Arlington   Arlington, TX
IT Analyst   *January 2020 – Present*

- Managing UTA's website using **HTML5, CSS, Bootstrap, JavaScript** on the **Sitecore CMS**.
- Managing the system encryption process using SecureDoc (AES 256-bit encryption) and images of Windows and macOS.

Success Marketing   Kota, India
Product Manager intern - Web Developer   *May 2019 - August 2019*

- Worked as a web developer to build a website to facilitate and increase sales by adding information and images of inventory and improve their market reach by 35%.
- Increased the company's visibility globally by creating a web application using **React, CSS,** and **Google APIs**.

SELECTED PROJECTS

Supply Spot - YHacks 2020   Yale University, CT
Web Application for hospitals to find blood donors on-demand or in case of emergency by sending alerts.   *Fall 2020*

- Developed this using **Python, Flask, Socket.io, CSS, and HTML** for synchronized communication.

Finviser - HackTX 2019   UT Austin, TX
A fully functional Web App for students to manage their personal finances.   *Fall 2019*

- Built using **MongoDB, React, Python**, and **Flask** and deployed to **Heroku**.
- Created a finance advisor chatbot with **IBM Watson AI on Bluemix, IBM's cloud service** with **Slack's API**.

Fotention - TamuHack 2019   Texas A&M College Station, TX
Android/iOS App for people to get off phone and focus on what they can do without a phone.   *Spring 2019*

- Developed this application using **React.js, HTML, CSS, and Firebase** to be fast and scalable.

Find my Laptop - Personal Project   UT Arlington, TX
An application that helps students to find the best laptops for their needs.   *Fall 2018*

- Built a Web App using the **WAMP (Windows, Apache, MySQL, PHP) stack** with extensive use of **JavaScript** on the front-end and deployed using **GitHub pages**.

LEADERSHIP EXPERIENCES, ACTIVITIES, AND AWARDS

Co-Founder, Cyclotrots   *May 2013 - Fall 2018*

- Started and managed a cycling community in the city of Kota, Rajasthan. 1200+ active members as of August, 2020.
- Led 2 month-long city sanitation campaign spanning 5 km^2 which cleaned 45% of roads of that suburb of Kota.

Excel Campus Activities   *January 2019 - Present*

- Programmed EXCEL's participation in New Maverick Orientation, University Preview Days, and Activity Fairs.
- Co-Managed the annual budget of ~$200,000 to develop and organize events like Halloween casino night, Homecoming street festival, Bed Races, Welcome Bash, and MavsMeet across the campus as part of the programming committee.

Maverick Scholarship recipient - (Covering 90% of the tuition for 4 years)   *August 2018 - Present*
Academic Excellence Award by the Times of India - (Rewarded to the top 2% students of the country)   *Fall 2016*