

HARSHIT RAJ

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EDUCATION

University of Maryland, College Park, MD

MAY 2022

Bachelor's Degree in Computer Science, Statistics & Business Analytics

GPA: 3.591

- **Dean's List** – 2018, 2020
- **Relevant Coursework (Computer Science)**: Object Oriented Programming I; Object Oriented Programming II; Introduction to Data Structures; Introduction to Computer Systems; Algorithms; Design and Analysis of Algorithms; Introduction to Data Science
- **Relevant Coursework (Statistics)**: Calculus I; Calculus II; Calculus III; Introduction to Linear Algebra; Applied Probability and Statistics I; Applied Probability and Statistics II
- **Relevant Coursework (Business Analytics)**: Introduction to Business Value Chain; Data Modeling in Business

SKILLS

- **Proficient in**: Java, C, Python3, Minitab, Testing & Debugging
- **Experience with**: SQL, HTML5, Jupyter Notebook, Assembly, Kivy, JavaScript, CSS, Docker, R, Ruby, OCaml, MATLAB
- **Other Strengths**: Teamwork, Meticulous, Analytical, Critical Thinking and Problem Solving

WORK EXPERIENCE

CO-AUTHOR AND RESEARCHER

MAY 2020 – SEPTEMBER 2020

Institute of Electrical and Electronics Engineers (IEEE), Dubai, United Arab Emirates

- Analyzed **1,272 datapoints** to assess the impact of COVID-19 in **212 different countries** by using graphical visualization in **Python3**.
- Collaborated with a **highly experienced professor** at the Birla Institute of Technology to **submit a research paper**, analyzing **four factors** impacting the spread of the virus.
- Advanced data visualization of graphs by formulating **over five equations** to analyze the data.
- Incorporated **linear regression** using **R-Values** in the equations for datapoints to highlight the trends observed.

SOFTWARE ENGINEERING INTERN

JUNE 2019 – AUGUST 2019

Arkant Labs – Microsoft Technologies, Dubai, United Arab Emirates

- Introduced to technical content related to **Office 365 SharePoint Portal**.
- Assisted in IT Infrastructure migration to Office 365 platform/Microsoft Technologies (**Azure/AD, 2FA, PowerShell, SharePoint/Intranet**) by contributing **over 320 hours**.

PROJECTS

Virtual College Counselor – Python3, JavaScript, CSS & HTML5

SEPTEMBER 2020 – PRESENT

- Built an **algorithm that guides high school students to find colleges** based on their current transcripts, extra-curricular activities, standardized test scores, community service, fit and financial situation.
- Collaborated **over 30 days** with a partner to **model and develop** the program and website.

Medical Assistance Application – Python3 & Kivy

MARCH 2020

- Developed a **model algorithm to direct emergency patients** to appropriate hospital based on expressed symptoms, available equipment and healthcare professionals during a medical crisis such as the COVID-19 pandemic.
- Collaborated **over 25 days** with a partner to **design** a user-friendly application.

ORGANIZATION & LEADERSHIP

AMBASSADOR

JUNE 2020 – PRESENT

Robert H. Smith School of Business, University of Maryland, College Park, MD

- Promoted the Smith Minor Program to **prospective students** by sharing experiences and achievements of enrolled and alumni students.
- Assisted the Smith Minor faculty in **creating and enhancing marketing material** to **increase student awareness** about the program and providing information for students, faculty, staff and visitors.

MENTOR

NOVEMBER 2019

Technica, University of Maryland, College Park, MD

- Mentored and guided **over 3,000 participants** at the **world's largest all-women hackathon**.
- Worked with a team of about **40 mentees** to help understand project implementation and object-oriented programming concepts.

CERTIFICATION

IBM - Data Science Professional Certificate with Honors

MAY 2019 – JUNE 2019

- **Coursework**: Data Science; Introduction to Data Analysis and Machine Learning with Python; Databases and SQL for Data Science