Vivek Waghray

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EDUCATION

University of Maryland - College Park, MD 2020 – Expected 2024

BS - Computer Science with General Business Minor GPA: 3.412 / 4.0

SKILLS

Software: Python, Java, Android App Development, HTML, Arduino, MATLAB, SQL, C/C++

Coursework: Object Oriented Programming, Data Structures, Computer Systems, Computer Algorithms, Multivariate Calculus, Differential Equations

EXPERIENCE

Software Engineering Intern @ Amazon June 2022 – August 2022

- Implemented accessibility features for the Network Status Advisor (NSA) on Fire TV using Java and Android Studio
- Mastered Android App Development and Android TalkBack to improve the quality of the NSA pages
- Incorporated Amazon API for VoiceOver and Network Testing features on the Fire TV
- Executed unit testing to ensure performance measures were met

Consultant @ D&H Distributing (QUEST Capstone Practicum) January 2023 – June 2023

- Shortlisted three portal developers as recommendations for D&H to implement their self-serve vendor portal
- Projected to save $445,000 over five years and 51 hours a week for their Accounts Payable team with our proposal
- Designed a portal wireframe, created a cost-benefit analysis, and provided a return-on-investment breakdown
- Conducted 18 stakeholder interviews, received 32 survey responses, and met with over 10 software companies

PROJECTS

University Honors Consulting Project (QUEST)

- Reduced time for the citation tracking and student advising process by 70% for UMD's University Honors Program
- Conducted surveys, stakeholder interviews, and research to provide recommendations to improve the process

Product Innovation Project – ArMod (QUEST)

- Designed a product that added high end functionality to low-cost prosthetics by creating and modeling various modular attachments for prosthetic arms (aiming to add affordable functionality to cheaper cosmetic prosthetics)

Remote Analog Read

- Connected an Arduino using an ESP32 to an IP address
- Hosted a web server to communicate data collected from the Arduino to be received and displayed

COVID Safety Sensor

- Designed a portable machine using an Arduino and $40 budget in two weeks
- Programmed functionality to alert someone based on if the motion detector recently noticed someone touch a targeted surface

LEADERSHIP EXPERIENCE

University of Maryland QUEST Honors Program 2021 – Present

- Acquired experience and knowledge in multidisciplinary fields (the colleges of Business, Engineering, and Science)
- Utilized teamwork, communication, and problem-solving skills in real world projects with real businesses

University of Maryland College Park Scholars – Public Leadership (LLP) 2020 – 2022

- Led discussions and debates of current social events which impact policy making
- Solicitated 14 Request for Proposal submissions successfully and after shortlisting and interviewing, we awarded the grant to the Latino Student Fund in efforts of addressing minority education
- Evaluated and assessed various non-profits to award a $1000 grant as a team