

# VIVEK WAGHRAY

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## EDUCATION

**University of Maryland - College Park, MD**  
*BS Computer Science with General Business Minor*

2020 - 2024  
GPA: 3.458 / 4.0

## SKILLS

**Software:** Python, Java, Git, Android, HTML/CSS, JavaScript, Spring Framework, MySQL/MongoDB, 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 enhancing usability for over 2 million users
- 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

### Movie Guesser Game

- Developed a web app with HTML, CSS, JS, and IMDB API to allow users to guess the release years of 1000+ movies
- Implemented AJAX to handle up to 600 API requests per minute and used MongoDB to store and retrieve previous guesses, ensuring a responsive experience with real-time feedback

### 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

### Remote Analog Read (Arduino and ESP32)

- Hosted a web server to communicate data collected from the Arduino to be received and displayed on localhost

### COVID Safety Sensor

- Created 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 - 2024

- 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

- Facilitated over 15 structured debates on pressing social issues
- Gathered insights from 50+ participants to create a Request for Proposal for organizations to apply for our grant
- Solicited 14 submissions, shortlisted the options, conducted interviews, and awarded a grant of \$1000