

Arthur Wu

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EDUCATION:

B.S. Information Science with Specialization in Data Science

May 2021

University of Maryland, College Park

Cumulative GPA: 3.561, Major GPA: 3.853

EXPERIENCE:

Collegiate Intern - Gracepoint Ministries, Boston

June 2021 - Current

- Helped to establish and develop a collegiate Christian fellowship in its launch year as a full-time intern.
- Assisted in planning, promoting and carrying out weekly events varying in size, ranging from small meetings of 15 students to retreats of up to approximately 250 people.
- Helped coordinate and participated in construction work of new ministry building, dismantling previous building layout and reconstructing new interior in the timespan of 3 weeks, in time for the first ministry-wide event.

Assistant Web Developer - UMD Human Computer Interaction Lab

January 2020 - May 2021

Python, Google Sheets, HTML, CSS, JavaScript, WordPress

- Identified and fixed accessibility issues on 197 archived HCIL webpages using analysis from Siteimprove, raising the department accessibility score from 64.5% to 66.2%.
- Created and maintained 3 new WordPress webpages on the HCIL department website for a department workshop, symposium and current research in human-centered AI.
- Automated updates to the HCIL archive video list webpage by developing a python script to parse an archived videos spreadsheet and update the webpage code accordingly.

Undergraduate Systems Administrator - UMD Computer Science Department

May 2019 - May 2021

- Provided daily technical support to members of the CS department across Mac, Windows and Linux systems, and managed servers used by all department members.
 - Distributed machines and software used in department buildings, and facilitated equipment purchases for CS faculty and staff.
 - Assisted with interviewing and onboarding 3 new student employees.
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PROJECTS:

DC Water Capstone Project

January 2021 - May 2021

MySQL, Power BI, ArcMap

- Worked with a consulting team of 5 over the timespan of one academic semester to assist DC Water in detecting data discrepancies within their impervious area detection application.
- Assisted in developing 2 new enriched impervious area tables for 2013 and 2019 data by joining DC Open Data datasets with data from DC Water's internal ArcMap databases.
- Generated and delivered a final PowerBI dashboard comparing 2013 and 2019 data, supplemented with a dashboard manual and a future actions report.

Social Media Coverage on COVID-19 Data Project

January 2021 - May 2021

Python (NumPy, Regex, Pandas, pyLDAvis, NLTK), Facepager

- Led a team of 4 to determine how different major news organizations cover COVID-19 on Facebook.
- Took charge of data fetching and cleaning from Facebook, and engagement analysis using pandas. Also actively assisted other members with topical and time series analysis by debugging and troubleshooting python code.
- Represented the team as project liaison and organizer, facilitating communication with instructors and within the team.

Schedule of Planet Terps

August 2020 - December 2020

HTML, CSS/Bootstrap, JavaScript, NodeJS/ExpressJS, Heroku

- Worked with a team of 5 over the timespan of an academic semester to develop an enhanced schedule of classes web application that displays information about available UMD courses, professor ratings and class difficulty.
 - Held a major full-stack position on the team, leading the back-end development process of connecting to open source APIs and handling website logic, while providing support for front-end-development by debugging errors and conducting the implementation of more complex Bootstrap styling.
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SKILLS:

- **Data Analysis:** MySQL, R, Power BI, Tableau, Python, Jupyter, ArcMap, MS Excel/Google Sheets
- **Web Development:** HTML, CSS/Bootstrap, JavaScript/jQuery, NodeJS/ExpressJS, React, WordPress
- **Programming Languages:** Java, Python, C, Ruby, OCaml
- **Creative and Office:** Adobe Photoshop, Adobe XD
- **Other:** UNIX/Linux, Git