

# Arthur Wu

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## EDUCATION:

### University of Maryland, College Park

May 2021

B.S. Information Science with Specialization in Data Science

Cumulative GPA: 3.561, Major GPA: 3.853

## SKILLS:

- **Programming Languages:** Python, JavaScript, Java, C, Ruby, OCaml
- **Web Development:** node.js/ExpressJS, Flask, React, Bootstrap, JQuery, Heroku, WordPress
- **Data:** Python/Pandas, R, MySQL, PostgreSQL, Power BI, Tableau, Jupyter Notebook, ArcGIS
- **Other:** Git

## EXPERIENCE:

### Gracepoint Ministries, Boston – Technical Intern

June 2021 - Current

- Currently assisting in the development of an internal childcare logistical organizer application as a back-end and database developer using Python/Flask and Heroku PostgreSQL.
- Operated in an Agile environment, brainstorming and testing new content and promotion directions through weekly scrum meetings, and quickly pivoting from nonproductive trials.
- Directed and edited a five minute trailer video shown at a 200 participant intercollegiate event.

### UMD Human Computer Interaction Lab – Assistant Web Developer

January 2020 - May 2021

*Python, MS Excel, HTML, CSS, JavaScript, WordPress*

- Automated updates to the HCIL archive video list webpage by developing a python script to parse a spreadsheet of pertinent data and reconstructing HTML files accordingly.
- Identified and fixed accessibility issues on 197 archived HCIL webpages with analysis from Siteimprove, raising the department accessibility score from 64.5% to 66.2%.
- Created and maintained three new WordPress webpages on the HCIL department website including a department workshop page, department symposium page, and page to present current HCI research.

### UMD Computer Science Department - Undergraduate Systems Administrator

May 2019 - May 2021

- Provided daily technical support to members of the CS department across Mac, Windows, and Linux systems, and administered account creation and deletion on department servers.
- Facilitated equipment purchases for CS faculty and staff and set up machines and software used in department buildings.
- Onboarded three new student employees and participated in the interviewing and employee selection process.

## PROJECTS:

### Haircut Appointments Scheduler

February 2022

*React, node.js/ExpressJS, PostgreSQL*

<https://github.com/warthur123/haircut-appts>

- Developed a personal haircut appointments web application using PERN stack, constructing the user interface using React with Material-UI, handling API calls and routes with ExpressJS and storing appointment data using PostgreSQL.
- Expected to streamline personal haircut appointment organization for a 20-person customer base through the addition of an automatic email reminder component using the EmailJS module.

### DC Water Capstone Project

January 2021 - May 2021

*MySQL, Power BI, ArcMap*

- Led Power BI visualizations development on a consulting team of 5 to assist DC Water in detecting data discrepancies within their impervious area detection application between flyover periods that could impact customer billing.
- Created two 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 Power BI dashboard comparing 2013 and 2019 data, supplemented with a dashboard manual and a future actions report.

### Schedule of Planet Terps

August 2020 - December 2020

*HTML, CSS/Bootstrap, JavaScript, node.js/ExpressJS, Heroku*

<https://github.com/warthur123/Schedule-of-Planet-Terps>

- Developed and deployed a class schedule web application that displayed information about available courses at the University of Maryland along with professor ratings and class difficulty.
- Held a major programming position on the team, leading the back-end development process of connecting the app to two open-source APIs and handling website logic.
- Provided support for the front-end development by debugging errors and implementing more complex Bootstrap styling.