

Adryana Hutchinson

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EDUCATION

George Washington University, Washington DC

PhD in Computer Science

Clark University, Worcester, MA

Bachelor of Arts in Computer Science and Philosophy | **GPA:** 3.83/4.0

COURSEWORK

Design and Analysis of Algorithms, Data Structures & Algorithms, Database Management and Systems Design, Computer Networks & Network Security, Internet of Things (IoT), Tech Ethics & Public Policy, Analysis of Programming Languages, Robotics and Intelligent Systems, Automata Theory

SKILLS

Languages: Java, JavaScript, C#, C, Python, HTML5, CSS3, SQL, R

Technologies: Node.js, PDF.js, jQuery, Express, Postgres, Django, Firebase, React, React Native, Typescript, ROS, Arduino, Raspberry Pi, Network Programming (TCP/IP, sockets, etc.), NGINX

Software: Visual Studio, Git/GitHub, Slack, Microsoft Office, Figma, VirtualBox, Docker

Qualitative: Research Methodologies, UI/UX Design, Accessibility Testing & Assurance, WCAG 2.0

PROJECTS

GWUSEC Survey Software

- Custom survey software to build and maintain surveys. Users can design custom components for more sophisticated interactions compared to other survey tech, such as Qualtrics.
- Built in ReactJS, utilizes Docker to host and maintain.

Pillbug: PDF Breaker

- User-friendly PDF-editor that customizes PDF properties in-place. Used to fix broken tag trees/add tags to aid screen readers.
- Implements PDF.js and React to allow users to effectively analyze and view PDF properties.

Ambient Noise Measure

- Accessibility-focused distributed system using multiple microcontrollers programmed in C. Sends noise readings to a webserver hosted on a Raspberry Pi.
- Users could view noise levels and receive alerts when decibel levels reach a maximum.

WORK EXPERIENCE

Digital Accessibility Developer — *The American Heart Association*

1/23-8/23

- Assisting designers and developers on best practices for providing accessible solutions.
- Ensuring web engineers uphold accessible experiences before and beyond product launch.
- Identify components and patterns for accessibility refinement and prioritization.

Research Assistant — *Clark University*

6/21-5/23

- Worked with departments create PDF optimization software that makes PDFs more accessible. Utilizes screen readers to ensure that all PDFs are readable and formatted correctly.
- Created a data collection tool using Python, Django, and Docker that targeted and analyzed data from password managers and websites to ensure usability.
- Optimized microcontrollers to automate plant watering/temperature moderation.

Research Assistant — *Virginia Tech*

8/22-1/23

- Researched crowdsourcing techniques and building conversational assistant software.
- Used React Native to develop responsive mobile applications to facilitate effective voice-based conversational assistants.