Adryana Hutchinson

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EDUCATION

Clark University, Worcester, MA *May 2023*
Bachelor of Arts in Computer Science and Philosophy | **GPA:** 3.8/4.0

COURSEWORK

Data Structures & Algorithms, Database Management and Systems Design, Computer Networks & Network Security, Internet of Things (IoTs), 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

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.

Art Site

- Developed a multi-page eCommerce website to allow users to sell artwork. Utilizes Python, Django, NGINX, Docker, and Postgres.

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 Intern — *The American Heart Association* *1/23-Present*

- 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-Present*

- Working with the CS Department to create PDF optimization software that makes PDFs more accessible. Utilizes screen readers (such as JAWS, NVDA) 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 in various biology labs on-campus.

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.