Lucas Leiby

Contact Information

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Education

University of Pittsburgh | Bachelor of Science in Computer Science, Pittsburgh, PA, August 2022

Skills

- Strong understanding of object-oriented programming concepts and design
- Moderate familiarity with Java, Python, HTML5
- Currently learning C, Rust, SQL, and accessibility best practices (WCAG, ARIA)

Personal Projects

- Building an Amazon Alexa skill to provide information to prospective guide dog handlers

Work Experience

Prime Access Consulting | Intern (June-August 2021)

- Pioneered introduction of software enhancements to Multitap Bluetooth keypad using CircuitPython to improve VoiceOver user experience
- Introduced synchronous audio playback to immediately allow for issuing command proceeding mode of operation changes accompanied by dynamically-interruptible auditory feedback
- Developed stronger understanding of VCS workflows in a team environment

CAPRIO | Capstone Researcher (January-April 2021)

- Proposed and adopted consideration for environmental barriers to navigational tool for a more inclusive design
- Implemented bit map representation of user preferences for more efficient storage

Deloitte | Summer Solution Scholar (June-August 2019)

- Improved in-house webpage accessibility for screen-reader users per WCAG V2.1 level AA
- Spearheaded responsive web design to increase mobile productivity using Bootstrap
- Produced more accurate search results with Jaro-Winkler string-comparison algorithm

PennDOT | Engineering and Tech Intern (May-August 2018)

- Learned basic web and voice assistant development through building Amazon Alexa skill using C#, .NET Core, and AWS allowing drivers to report traffic light outages
- Helped build Alexa skill through using voice-user-interface model design with natural conversation techniques
- Reviewed unit testing suite to streamline debugging and QA processes