# Lucas Leiby

Software engineer seeking opportunities to employ knowledge of web development to improve user experience in everyday tasks

## Contact Information

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## Education

University of Pittsburgh | B.S. in Computer Science, August 2022

## Skills

* Possesses strong understanding of object-oriented programming concepts and design
* Intermediate: Java, Python, HTML5
* Learning: C, Rust, SQL

## Personal Projects

* Engineering Amazon Alexa skill to provide information to prospective guide dog handlers using Flask

## 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)

* Introduced environmental barriers factoring to navigational tool for more inclusive design
* Implemented bit map representation of user preferences for more efficient storage

### Deloitte | Summer Solution Scholar (June-August 2019)

* Enhanced team understanding of web accessibility for screen-reader users through analysis of in-house webpage per WCAG V2.1 standard
* Spearheaded implementation of responsive web design to increase user productivity cross-platform using Bootstrap
* Designed and implemented improvement to database query efficiency by producing 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#, .NETCORE, and AWS that allows drivers to report traffic light outages
* Strongly contributed to engineering Alexa skill through voice-user-interface model design and implementation by employing natural conversation techniques
* Familiarized with unit testing suite to streamline debugging process