Alexander K. Holland

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Education

University of Wisconsin - Madison   **September 2021 - Present**
- Triple majoring in Computer Engineering, CS, and Data Science with minors in Mathematics & Leadership

Relevant Coursework

• Java Programming	• Python Programming	• C & Assembly Programming
• Data Structures	• Algorithms	• Intro to Information Technology
• Discrete Mathematics	• Theory of Probability	• Multivariable Calculus

Professional Experience

Kohler Credit Union - Information Technology Apprentice   **June 2019 - June 2021**
- Managed the company access control system, password manager, end-user documentation, and laptop fleet.
- Facilitated company move to a new Corporate Center, personally handling large portions of the networking, diagramming, and VOIP implementation.
- Tested scripts and software of teammates to ensure bug-free, up-to-date, and efficient implementations.
- Used and maintained Windows Update Servers to ensure up-to-date software across all devices.
- Conversed daily with I.T. professionals to improve professional dexterity and networking skills.

Technical Skills

Languages: Java, Python, C, MATLAB, HTML/CSS, LC3 Assembly
Developer Tools: Git, Visual Studio, Eclipse, Vim, Bash/Command Line, Google Cloud Platform

Recent Projects   View More Here

Package Shipment Organizer Application | Java
- Worked with a team to develop a program to find the shortest path to deliver packages from a delivery center to houses on a mock route, implemented as a graph data structure.
- Personally wrote and implemented the algorithm to find the shortest path between nodes in the graph.

Custom Smart Mirror with Integrated Alexa | Linux, CSS, JavaScript
- Designed and built a custom smart mirror and housing utilizing open-source 2D and 3D design files.
- Implemented both open-source and custom CSS and JavaScript code to create a "head's up" display showing data such as the current time, weather, NBA game scores, and stocks for various users.

Show-Searcher Application | Java
- Worked with a team to develop a program allowing users to efficiently search through a database of shows that can be streamed online from Netflix, Prime Video, Hulu, and Disney+.
- Personally implemented classes to parse CSV files and, through a hashtable implementation, allow for efficient searching by show title, service provider, or year of show production.

Extracurriculars/Activities

Student Leadership Program - Chair Position   **September 2021 - Present**
- Developed effective leadership skills through comprehensive leadership education and diverse experiences.

Cybersecurity Club   **September 2021 - Present**
- Attended lectures on various topics such as HTTPS, Linux, APIs, WPS, and Information Security.

Honors and Awards

Forensics Individual State Champion   **May 2021**
- Qualified for and placed 1st in the forensics state competition "Impromptu Speech" category.

Herbert V. Kohler Scholarship Recipient   **May 2021**
- Won the HVK Scholarship, awarded to strong scholars/leaders in the county surrounding Kohler Company.