Alexander K. Holland

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Education

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

Relevant Coursework

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

Professional Experience

Kohler Credit Union - Information Technology Intern   **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, XML, LC3 Assembly
Developer Tools: Git, Visual Studio, Eclipse, Vim, Bash, Android Studio, Google Cloud Platform

Recent Projects   [View More Here]

LegiTech - OCR Handwriting Analysis Scanner (Android App) | Python, OpenCV, Java, XML
- Utilized a convolutional neural network, OpenCV, a custom API, and an AWS backend to automatically both grade the legibility of students' handwriting and convert scientific handwritten text to LaTeX form.
- Personally implemented the frontend application and used HTTP requests to query the backend for data.
- Worked with a team of three to develop the entire application in only 24 hours during 'MadData' hackathon.

MagicMirror - 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.

BingeBuddy - Show-Searcher Program | 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.

Organizations & Extracurriculars

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

Wisconsin Quantum Computing Club   **December 2022 - Present**
- Attended lectures on topics such as quantum algorithms, the physics behind quantum, and quantum research.

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.