

# Ben Lottes

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## **Education**

Graduating in May 2023

The University of Kansas, Lawrence, KS

Bachelor of Science in Computer Science, GPA 3.75

Certificate in Cyber Security

## **Leadership Positions**

**Treasurer, KU Artificial Intelligence Organization**

September 2021 - Present

- Organized for and received funding through the University of Kansas
- Participated in creating a LSTM based neural network capable of generating music in Python
- Guided students new to coding through creating some of their first programs.

**Sign Language Interpreter Team Member, Capstone Project**

August 2022 – Present

- Developed a prototype capable of classifying pictures of the alphabet in ASL with Python
- Leading implementation of 3D Convolutional Neural Network for interpreting RGB videos
- Advising on future challenges and limitations that will need to be addressed

**Budget Tracker Team Lead, Software Engineering Class**

August 2021 – December 2021

- Headed development of data management as well as visualization with graphs in JavaFX
- Distributed tasks among the group to keep us on schedule
- Managed testing before commits to the repository

## **Work Experience**

**Student Employee - KU School of Engineering IT Center**

November 2019 - Present

- Fielded phone calls and arranged for techs to resolve issues
- Diagnosed and handled IT issues for students and faculty in a timely manner
- Monitored 15 classrooms and 20 printers to ensure minimal downtime

**Electronics Team Member – Target**

November 2017 – July 2020

- Chatted with customers to find technology to fit their needs
- Assisted guests with fixing their devices when issues came up

## **Projects**

- Designed and implemented a full-stack note taking CRUD application using the MERN stack.
- Created a compiler in C++ to translate a simple offshoot of C to x86 assembly code.
- Simulated a MIPS processor capable of recursion using VHDL in Xilinx Vivado.
- Used C to communicate between multiple microcontrollers and motors to steer an RC car.
- Implemented a variety of data structures in C++.

## **Skills**

Python, Java, C++, JavaScript, HTML, React, MongoDB, SQL, Git, Debugging Tools(GDB, Valgrind), Microsoft Office Suite, Customer Relations, Conflict Resolution, Problem Solving, Collaboration