

# Alex Hoffman

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## EDUCATION

Undergraduate Classes  
Metropolitan Community College (MCC)

August 2020 – May 2020  
Kansas City, MO

Bachelor of Science in Computer Science  
University of Missouri-Kansas City (UMKC)

December 2024  
Kansas City, MO

## SKILLS

Coding Languages: C++, C#, Python, Java, HTML & CSS, Typescript

Database: PostgreSQL and MongoDB

JavaScript Frameworks: React and Angular

LLM tools: Langchain, LlamaIndex, Semantic Kernel

Other: Docker

## WORK EXPERIENCE

Undergrad Research Assistant  
Missouri Institute for Defense & Energy

May 2023 – Current  
Kansas City, MO

- Developed a React frontend with Deck.gl that allowed geospatial visualization of data captured from devices in real time. Also enabled interactivity with the device for sending commands and monitoring output
- Help develop a Python MQTT Pub-Sub Client on an edge device running on Linux (Jetson Nano). Said device could receive commands and transmit time sensitive data between devices and send them to a remote computer.
- Develop prompts and backend code for a Python ChatGPT chatbot for detecting faults in code segments, where the faults occurred, and provide fixes for said segments. This had a React frontend to display the communication between user and AI client which updated in real time.

Courtesy, Cashier, Backroom, & Kitchen  
Hy-Vee

March 2021 – July 2023  
Kansas City, MO

- Bring products from the back its position on the floor, look for products that customers need in backstock, and organize backstock.
- Assisted management with their tasks and responsibilities.

## RELATED COURSES:

COMP-SCI 431 – Introduction to Operating Systems

COMP-SCI 441 – Program Languages

COMP-SCI 449 – Software Development