

Genova Alexander Mongalo

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EDUCATION

University of Missouri-Kansas City (UMKC)

Kansas City, MO

Bachelor of Science - Computer Science

Expected Dec 2024

GPA: 3.8

University of Missouri-Kansas City

Kansas City, MO

Masters – CyberSecurity

Expected May 2026

SKILLS

Computer Languages: C#, C++, java, python, LISP, SQL

Computer Skills: Github, LLM, AI, CyberSecurity, (Cryptography, Steganography, etc.)

Languages: Spanish, Amharic

WORK EXPERIENCE

National Science Foundation

Kansas City, MO

Research Intern

June 2024 – Dec 2024

- Develop a robust model using Large Language Models.
- The goal is to detect ransomware through Industrial Control Systems.
- Achieved 99/85% accuracy for binary/family classification scale respectively.
- Paper was accepted and presented at IEEE Big Data Banks 2024.

National Science Foundation

Columbia, MO

Research Intern

May 2023 - July 2023

- Designed a model that detects/predicts cybersickness.
- Using a transformer machine learning model.
- Succeeded with an accuracy of 85% from a 1-10 cybersickness severity scale.

NASA

Kansas City, MO

Research Intern

December 2021 - April 2022

- Simulated transmissions to outer space using artificial intelligence.
- Calculated areas of strength of the signals.
- Developed an interface to interact with the model and determine recommended frequencies for certain circumstances.

PROJECTS

Functional Programming Parser Project

March 2024

- Write a code parser for a small artificial language based on FORTRAN
- Determines if .txt input code is valid, otherwise throws an error along with line #
- DrRacket (Derived from LISP) and Racket Command Book.

HONORS & AWARDS

Discipline Distinction Award

December 2024