

MICAH LEE MCCOLLUM

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🌐 m-lm.github.io

🐙 github.com/m-lm

Education

University of Arkansas, Fayetteville

2023 – 2026

B.S. Computer Science, minor in Mathematics; Honors College

University of Arkansas, Pulaski Technical College

2021 – 2023

A.S. Technology and Engineering

Relevant Courses: Discrete Mathematics, Linear Algebra, Multivariable Calculus, Probability & Statistics, Combinatorics, Operating Systems, Artificial Intelligence*, Database Management Systems*, Software Engineering*

Projects & Skills

Grapple

present

A graph database engine written from scratch in Java implementing OOP principles, graph traversal algorithms, and data storage. This is an ongoing project.

Minmath

2024

A minimalist, full-stack website for mental math exercises. It is built using JavaScript/HTML/CSS on the frontend and Python/Django on the backend with connections to a PostgreSQL database.

Huffman Coding

2024

Compression algorithm implemented in Python using binary tree and heap data structures.

Concurrent Simulations

2024

Implementations of multi-threaded concurrent systems using mutexes, semaphores, and monitors in Java for simulations, built as part of a course.

Simple Database

2024

A simple relational database engine with basic querying written virtually from scratch in C++, built as part of a course project.

Discord Server Bot

2023

Discord server chatroom bot utilizing web scraping techniques and various third-party APIs to deliver content to users, written in Python and deployed on a Linux virtual machine.

Skills: C++, Java, Python, JavaScript, HTML/CSS, SQL, Linux, Git, Docker, Vim, Visual Studio Code, web scraping, data analysis, OOP

— Awards & Honors

Chancellor's List, University of Arkansas Fall 2023 – Spring 2024

Dean's List, University of Arkansas Fall 2024

Chancellor's List, Pulaski Technical College Fall 2021 – Spring 2023

Published in *Milestones Academic Journal* vol.17 at Pulaski Technical College 2021 – 2022
for "The Impact of Codebreaking During World War II"

Recipient of the Math Scholar Award at Pulaski Technical College 2021 – 2022

Recipient of the Outstanding Gen. Chemistry II Student Award at Pulaski Technical College 2021 – 2022

— Miscellaneous

Besides programming, I enjoy reading, hiking, playing tennis, and practicing piano; I have also been making electronic music for over a decade.