Colby Cox

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OBJECTIVE

To acquire a software engineer/data scientist position where I can further develop and utilize the skills I have learned.

EDUCATION

University of Central Arkansas (August 2024 - Present)
Master of Science – Applied Mathematics

University of Central Arkansas (August 2020–May 2024)
Bachelor of Science (GPA 3.4) – Computer Science

EXPERIENCE

Graduate Teaching Assistant — *University of Central Arkansas*
SPRING 2025 - PRESENT

Assist with College Algebra and Applied Calculus. Teach classes as needed. Tutor in the Math Resource Lab. Grade papers for Transitions to Advanced Mathematics. Proctored the ACTM math contest. Attend weekly meetings.

PROJECTS

Networking — *Home Server*
SUMMER 2024

Built a server with Ubuntu, managed storage with Samba, managed media with Plex, and used Pi–hole for adblocking.

Regression Analysis — *Agriculture and Undernourishment*
SPRING 2024

Analyzed the relationship between a country's agriculture and undernourishment and showed how agriculture statistics are correlated

Multivariate Analysis — *Voting Demographics*
FALL 2023

Used K–Means clustering and Multidimensional Scaling to prove that age, income, sex, and ethnicity impacted voting tendencies.

Probability Theory — *Monty Hall Problem*
FALL 2023

Generically proved the Monty Hall Problem both mathematically and by running it through a simulation.

Data Clustering — *K-Means Project*
FALL 2023

Recreated the K-Means clustering process in C++ with initialization, standardization, and scoring measures.

Database Systems — *IMDB Project*
FALL 2022

Designed a database based on IMDB over the course of a semester.

HARD SKILLS

C++
Python
Java
R
SQL
GitHub
Microsoft Office
HTML 5
CSS
Javascript
React
Tailwindcss
Maple
Latex
Calculus
Data Clustering
Probability Theory
Linux/Unix Systems
Linear Algebra
Complex Analysis

SOFT SKILLS

Creativity
Leadership
Problem Solving
Detail-Oriented

INTERESTS

Playing music
Dance
Video Games

LINKS

https://www.linkedin.com/in/williamcolbycox/
https://github.com/ColbysPrograms
https://colbysprograms.github.io/Portfolio/

REFERENCES

Michelle Talley, ptalley2@uca.edu, (501) 450-5978
James Fetterly, jfetterly@uca.edu, (501) 450-5657
Jonathan Baarsch, jbaarsch@uca.edu