ERIK THOMPSON

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Personal Branding Website: eriktho1.vercel.app

SUMMARY

Pursuing a challenging role in the field of Computer Science that utilizes strong analytical thinking, technical proficiency, and collaborative skills developed through practical project experience. Experienced with applying data structures, algorithms, and data mining techniques to solve complex problems. Proficient in programming with Python data science, Java and C DSA, and Ruby on Rails web development.

EDUCATION & AWARDS

The Ohio State University   Columbus, OH
Bachelor of Science in Computer Science & Engineering
August 2019-May 2024 Majors: Computer Science and Engineering

GPA: 3.62/4.00
- Presented and lead Ohio National Guard Cybersecurity Response Capstone made with Ruby on Rails
- Curriculum: Data Science, Electronical Engineering, Computer Science Languages, and Game Design
- Advanced in MS Office, Java, Python, C, x86-64 Assembly, Ruby on Rails, Statistics, SQL

EXPERIENCE

Elite Tutoring Place of Plainfield   Plainfield, IL
STEM Tutor   September 2024-April 2025
- Teaching Algebra I, Algebra II, Geometry, Calculus, Physics, Chemistry, and AP Human Geography

PROJECTS

Custom Language made with Java   Columbus, OH
CSE 5341: Principles of Programming Languages   May 2023-August 2023
- Features parser with specialized scanner that breaks code entered a parse tree
- Custom executor that uses unique memory class and custom data types

Data Mining Jupyter Notebooks   Columbus, OH
CSE 5243: Introduction to Data Mining   January 2024-May 2024
- Various data mining techniques used: data understanding, data preparation, modeling and evaluation
- Technologies feature Anaconda, Jupyter Notebook, clustering algorithms, and association analysis

Ruby on Rails Cybersecurity Project   Columbus, OH
CSE 5241: Introduction to Database Systems   January 2024-May 2024
- Designed and architected a web application, to be deployed on private cloud servers
- 24 step process of cybersecurity response from the Ohio National Guard Cyber Reserve team
- Individual steps of emergency response process are private due to nondisclosure agreement
- PDF downloads of each step are available on website and include forms to provide feedback on progress

COMMUNITY ENGAGEMENT

DuPage Senior Citizen Council   Naperville, IL
Volunteer   January 2022-July 2022
- Shoveled snow, mowed, and trimmed hedges of senior citizens homes to support local communities.

Cybersecurity Club at The Ohio State University   Columbus, OH
Member   October 2022-May 2024
- Beginner to advanced learner of PWN type challenges which is binary vulnerability exploitation
- Advanced at reverse engineering with Ghidra
- Experienced with key loggers and other hacking devices like Flipper Zero