

MALCOLM FERGUSON

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<https://github.com/BigFergie82/Projects>

EDUCATION

University of Connecticut

Bachelor of Arts in Computer Science

Concentration in Cybersecurity and Minor in Economics GPA 3.3

Storrs, CT

August 2023 - May 2027

PROJECTS

Password Manager

Python, Cryptography, JSON

Developed a command-line password manager with symmetric encryption, key management, search functionality, and JSON-based storage.

Password Strength Checker

Python, Cryptography

Developed a Python-based password analyzer that calculates entropy, estimates crack time, and provides feedback on character composition to improve password security.

TCP Client-Server Word Search

Python, Networking

Implemented a TCP client-server application enabling clients to submit queries and perform wildcard word searches on server-hosted text files, supporting real-time text retrieval and pattern matching.

RELEVANT CLASSES

Data Structures and Object-Oriented Design in Python, Introduction to Discrete Systems and Algorithms, Systems Programming, Cybersecurity Lab, JavaScript Introduction Course, Functional Programming Fundamentals, Introduction to Computer Architecture, Computer Networks and Data Communication

WORK EXPERIENCE

Economic Risk Lab Research Assistant

2025

Helped aid in research of old economic policies from the 19th century

A1 Home Improvement Sales Intern

2025

Worked with the sales team and gained hands-on experience in customer outreach and lead generation

Lowe's Garden Associate

2024

Supported the garden center and handled duties relating to maintaining the health of plants

Whole Foods E-commerce Associate

2023

Managed several tasks including distributing online orders and ensuring efficient metrics were upheld

EXTRACURRICULARS

The Ability Experience

Assisted in fundraising efforts to promote disability awareness

Volunteered to support individuals with special needs through service events

Organized events that foster inclusion and accessibility

UConn Club Ultimate Frisbee A

Captain, Vice President

Developed teamwork, communication, and leadership skills on and off the field

HuskyTHON

Helped raise funds for Connecticut Children's Hospital through campus events

Coordinated with a team to engage donors and organize fundraising initiatives

Pi Kappa Phi

Engaged in leadership development and community service initiatives

Participated in brotherhood events fostering teamwork and camaraderie