David Falokun

falokud3@miamioh.edu | https://www.linkedin.com/in/david-falokun

EDUCATION

EXPECTED GRADUATION MAY 2024

Miami University, Ohio

Computer Science Major in Combined BS/MS, GPA: 3.89

Member of Honors Program, and Recipient of RedHawk Excellence Scholarship & Graduate Assistantship

PROJECT & RESEARCH EXPERIENCE

Course Projects, Miami University

- *RSA Algorithm*: Implemented the RSA algorithm in Java using modular arithmetic
- *Pascal to Assembly Compiler*: Converted Pascal into assembly with Flex, Bison, and C++
- *Knight's Tour*: Used Prolog to generate solutions to the knight's tour problem
- *Weather App*: Built a weather web app using Bootstrap, JavaScript, PHP, and MySQL

FEB 2022 – MAY 2022

Cybersecurity Undergraduate Research, Miami University

- Investigated the potential security vulnerabilities in ARM architectures
- Explored topics such as Register Allocation, Machine Learning Based Compilers, the ARM TrustZone and other Trusted Execution Environments

APR 2022

Data for Good Hackathon, JP Morgan & Chase

- Collaborated in a team of 6 students from across the country in a data analytics case competition against more than 20 other teams of students
- Experimented with new technologies such as Jupyter Notebook and Tableau
- Created an effective presentation of our findings that impressed the judges

FEB 2023

Spotify Vinyl Popularity Finder, Black Plastic Records

- Produced a Python script that takes a .csv file of latest musical releases, isolates the vinyl section, and then used Spotify API to find the popularity of each Vinyl's Album and Artists

DEC 2022 — CURRENT

iOS & Swift - The Complete iOS App Development Bootcamp, Udemy Course

- Taking an online course that explores Swift, SwiftUI, Firebase, CoreML, CoreData, Realm, etc.
- Applying my learning by developing an app that allows for custom iMessage Tapbacks

RELEVANT PROFESSIONAL EXPERIENCE

AUG 2021 - CURRENT

CEC Tutor, Miami University

- Tutoring students in Math, Stats, Physics, and Computer Science Courses
- Courses include Object-Oriented Programming, Data Abstraction and Data Structures, Web Applications Programming, Calculus (I, II, III), Physics (I, II), Probability, etc.

JAN 2023 - CURRENT

Graduate Assistant, Miami University

- Assisting in multiple sections of an Object-Oriented Programming course through grading and student guidance during coding labs

CAMPUS INVOLVEMENT & ACHIEVEMENTS

Louis Stokes Alliance for Minority Participation Member, National Society of Black Engineers Member, 2x Presidents List and 5x Dean's List Recipient, Former Resident Assistant and Student Orientation Leader