BRONWYN BRETT

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PERSONAL INTRODUCTION

I am new a grad student pursuing a master's degree in computer science with an interest in research and studying parallel computing, machine learning, and computational biology. I'm looking for opportunities to develop my skills as both a researcher and a software engineer. Additionally, I have about a year and a half of prior experience working in a genomics lab.

SKILLS

- Python
- Github
- C
- C++
- SQL
- Excel
- REST APIs
- Analyzing data
- Software engineering
- Database management
- Human-computer interaction

EDUCATION

Florida International University
Miami, FL • 04/2023

Bachelor's of Science:
Computer Science

Florida International University
Miami, FL • 04/2027

Master's of Science: Computer Science

Link to Github:
https://github.com/BronwynB19

WORK HISTORY

FIU Biscayne Bay Campus - Research Assistant
North Miami • 2/2022 – 8/2023

- Designed a python application to automate research for DNA sequencing.
- Utilized bioinformatics software Geneious to align and analyze DNA sequences.
- Learned about topics in genetics like genomic sequencing and analysis.
- Worked both independently and collaboratively in a fast-paced laboratory environment to generate, record, and organize data.
- Assisted faculty members with assignments on research projects.

PROJECTS

Virtual Memory Simulator

- C Project for an Operating Systems class that applies various algorithms such as FIFO and LRU to emulate page-replacement strategies.

QuickRoute

- Python application that utilizes Streamlit and Google Maps API to find optimal routes from user-inputted locations using a greedy algorithm.

GenScrape

- Python bioinformatics application that reads through a series of accession numbers to generate fasta files.
- Personal project to assist a co-worker with their PhD school research.

Croptimizer

- Python application for a farming video game that generates a list of crops and the amount to buy, given a budget, to maximize in-game profits.
- Personal project built for fun to use with friends.