

CURTIS T. DAVIS

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EDUCATION

University of South Florida

USF Accelerated Master's Degree Program in Computer Science

Bachelor of Science in Computer Science

Master of Science in Computer Science

Tampa, FL

GPA: 3.54

Obtained: Dec 2020

Expected: May 2022

Relevant Courses:

- Analysis of Algorithms, Data Structures, Object Oriented Software Design, Hadoop and Big Data, Software System Development, Operating Systems, Linear Systems, Software Engineering, Computational Geometry, and Automated Reasoning

Language and Tool Proficiencies:

- C++, C, Java, Python, JavaScript (*D3*, *React Native*), CSS, HTML, Git, Hadoop, MapReduce

RESEARCH

Master's Thesis

University of South Florida

- Project consists of creating an interactive dimension reduction program using high-order spanning trees to provide insights about the properties of the data.

Smartphone Application for Asthmatic Adolescents

University of South Florida

Technical Lead / Research Assistant

October 2020 – Present

- Leading a team of developers through designing and developing an application for the USF College of Public Health, to help users self-manage their asthma via their smartphones.
- Act as an overseer of technical questions and issues, to ensure teammates can grow and perform well on the project.

Graph Layout Algorithms

University of South Florida

Research Assistant

May 2020 – December 2020

- Research included creating a new automatic mapping and layout algorithm for Reeb graphs.

Compression Program

University of South Florida

Independent Research

Spring 2020

- Developed a program which can compress and decompress multiple file types to decrease file sizes through various lossy and lossless algorithms.
- Also implemented several encryption and transformation techniques for the encryption of files.

WORK EXPERIENCE

University of South Florida

Tampa, FL

Teaching Assistant

January 2021 – Present

- Assist with grading assignments and exams, as well as helping students understand the material.

Ace Hardware

Wimauma, FL

Sales Associate

February 2020 – January 2021

- Help understand customers' needs and plans, then work to procure them a satisfying solution.

The Home Depot

Ruskin, FL

Tool Rental Technician, Sales, & Lumber Associate

January 2016 – July 2019

- Rebuilt broken machines and tools; repaired internals including electronics in such machines.

ACTIVITIES

Competitive Programming Society, *Member*

January 2019 – Current

White Hatters Computer Security Club, *Member*

January 2019 – Current

Robotics Team, *Team Leader*

January 2016 – May 2016