

CURTIS T. DAVIS

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EDUCATION

University of South Florida

USF Accelerated Master's Degree Program in Computer Science

Master of Science in Computer Science

Bachelor of Science in Computer Science

Tampa, FL

GPA: 3.54

Expected: Dec 2021

Obtained: Dec 2020

Relevant Courses:

- Computational Methods for Imaging, Geometric Modeling, Computational Geometry, Analysis of Algorithms, Data Structures, Object Oriented Software Design, Hadoop and Big Data, Software System Development, Operating Systems, Linear Systems, and Software Engineering

Language and Tool Proficiencies:

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

RESEARCH

Master's Thesis

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

University of South Florida

Smartphone Application for Asthmatic Adolescents

Technical Lead / Research Assistant

- 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.

University of South Florida

October 2020 – Present

Graph Layout Algorithm

Research Assistant

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

University of South Florida

May 2020 – December 2020

Compression Program

Independent Research

- 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.

University of South Florida

Spring 2020

WORK EXPERIENCE

University of South Florida

Teaching Assistant

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

Tampa, FL

January 2021 – Present

Ace Hardware

Sales Associate

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

Wimauma, FL

February 2020 – January 2021

The Home Depot

Tool Rental Technician, Sales, & Lumber Associate

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

Ruskin, FL

January 2016 – July 2019

ACTIVITIES

Competitive Programming Society, *Member*

White Hatters Computer Security Club, *Member*

Robotics Team, *Team Leader*

January 2019 – Current

January 2019 – Current

January 2016 – May 2016