

Tyler Le Cluse

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Education

Florida Institute of Technology, Melbourne, FL

B.S. in Software Engineering, Minor in Business Administration

August 2018 - May 2022

Relevant coursework:

Algorithms and Data Structures, Computer, Intro to Software Engineering, Operating Systems Concepts, Software Design Methods, Intro to Artificial Intelligence, Management Principles, Corporate Finance, Organizational and Behavioral Theory

Abilities

Technologies:

C/C++, Python, JavaScript, R, Arduino, SciPy, NumPy, Microsoft Office, JetBrains, Atom, Visual Studio, R-Studio, Windows, Linux, Mac, Raspberry Pi, Unix/Linux Commands, Git, GitHub

Power Skills:

Problem Solving, Creativity, Time Management, Cross Cultural Communication, Technical Communication

Projects

Speed-Reader

Currently developing a web application to save and organize files for a specific user. This website will also display text over a fixed point at a user specified rate. This allows the user to read faster than normally.

Heat Map

Developed a python program to query data from an SQL database and plot heatmaps based on birthdays for all available years.

Fit Bit

Developed a C program to keep track of Fit Bit type data that utilizes a probabilistic data structure, skip list, to perform queries and insertions in $O(\log n)$ time.

Employment Experience

Florida Institute of Technology, Underwater Technology Lab

Undergraduate Research Assistant: August 2020 – Present

Project: *Ground Station Control – Embedded Systems/Web Development*

Developed firmware for an embedded system that takes telemetry data and utilizes RF communication to transmit to the ground station. The data is then automatically logged to the corresponding CSV file.

Currently developing a web interface that takes data from the host system and gives access to multiple actions including: Launch, Flightpath Graphing, Data Visualization, System State Check, etc.

Technology Integration Group, St. Lucie West Facility

Intern: Summer 2017

Technician: Summer of 2018 & 2019

Leadership

Pi Lambda Phi Fraternity at Florida Institute of Technology

President: November 2020 – November 2021

Vice President of Risk Management and Housing: October 2020 – November 2020

Vice President of Finances: November 2018 – November 2019