**Christopher Bloodsworth**

Gainesville FL, 32608 | 941-445-3628 | [christopherbloodsworth@gmail.com](mailto:christopherbloodsworth@gmail.com)  
Github: <https://github.com/cbloodsworth> | Portfolio: <https://cbloodsworth.github.io>

# Education

## Bachelor of Science in Computer Science, University of Florida, Senior, Est. December 2023

* Majoring in Computer Science and Engineering with a minor in Mathematics. GPA: 3.66
* Member of the engineering honor society Tau Beta Pi.

## Associate in arts, State College of Florida, Graduated December 2020

* + Member of Gator Engineering @ SCF, taking both UF and SCF courses before transferring to UF proper.
  + Graduated Magna Cum Laude and as the designated recipient of “Outstanding Student in Mathematics.”

# Projects & Experience

## Technical Lead | UF Open-Source Club, Current

* + Manages twice-weekly discussions and working sessions for various open-source projects.
  + In Spring 2023, led OSC-API, a subgroup of Open-Source Club dedicated to the development of small-scale APIs.
  + In Fall 2022, led the development for AL-Bot 2.0, a discord bot written in Typescript using the Discord*.*jsAPI.

## Manuela |Georgia Tech’s RoboTech, March 2023

* + AI chat buddy coded in Python. Uses OpenAI’s DaVinci GPT-3 model, Google Text-to-Speech and OpenCV’s face detection API to detect the user’s current mood and provide meaningful, human responses.
  + In a four-person hackathon group, programmed the mood-detection portion and the main driver.

## Swamp Investigator |SwampHacks IX, January 2023

* + Procedurally generated exploration game made in Python using the PyGame framework.
  + Developed world generation using Perlin noise algorithms to create a realistic swamp to explore.

## File Systems Project |Operating Systems, December 2022

* + Using C++ in a virtual Ubuntu environment, created a program that could read and display the contents of WAD files. Integrated this with the FUSE API (filesystem in userspace) to create a fully navigable file system.

## ProtestPlots Scrum Master & Python Developer |Software Engineering Group Project, September 2022

* + Developed a Python script using Selenium and BeautifulSoupto gather and store data necessary to the website.
  + Held stand-ups multiple times a week to discuss and resolve impediments that the team may face, estimated effort-hours of tasks, and facilitated sprints with Jira.

## Gmail Scraper |Personal Project, November 2022

* + Uses the Python Gmail API and Beautiful Soup to filter my recent emails by keywords / blacklists.

## Discover Delays |Data Structures Final Group Project, April 2022

* Developed the desktop front-end experience for C++ software that displays flight data with interactive graphs.

# Notable Coursework

## COP3530: Data Structures and Algorithms

* + Provided the fundamentals for data structures and problem-solving with algorithms in C++.

## CEN3031: Software Engineering

* + Introduced Agile practices like Scrum and Kanban, as well as experience with the MERN web development framework, version control and CI/CD.

## CIS4930: Math for Machine Learning

* + Used mathematical proofs to understand core machine learning topics and followed them up with Python programming exercises to utilize the concepts.

## COP4600: Operating Systems

* + Presented the details of an operating system’s structure and offered experience in modifying a Linux kernel through a command line interface.

# Technical Skills

## Languages: C++, Python, Java, Typescript

## Frameworks: React, Node.js, FastAPI, PyGame

## Developer Tools: Linux, Git, SonarCloud, Markdown, LaTeX, Vim