

# Christopher Bloodsworth

941-445-3628 | [christopherbloodsworth@gmail.com](mailto:christopherbloodsworth@gmail.com) | [linkedin.com/in/chris-bloodsworth](https://www.linkedin.com/in/chris-bloodsworth) | [github.com/cbloodsworth](https://github.com/cbloodsworth)  
Personal Website: <https://cbloodsworth.github.io>

## TECHNICAL SKILLS AND INTERESTS

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**Languages:** C++, Rust, Python, Java, C, JavaScript (TypeScript)

**Developer Tools:** Linux, Bash, AWS (S3, EKS, EC2, Lambda), Git, Vim, SonarQube, Docker, Kubernetes, Jenkins

**Interests:** Compilers, language design, parallel computing, API design

## EDUCATION

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### Georgia Tech

*Online Master of Science in Computer Science (In Progress)*

Atlanta, GA

August 2025 – Est. 2028

### University of Florida

*Bachelor of Science in Computer Science, Minor in Mathematics*

Gainesville, FL

January 2019 – May 2024

- GPA: 3.78
- Member of the engineering honor society Tau Beta Pi.

### State College of Florida

*Associate's Degree in Liberal Arts and Sciences*

Sarasota, FL

August 2018 – December 2020

- GPA: 3.71
- Designated recipient of "Outstanding Student in Mathematics" award.

## EXPERIENCE

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### Software Engineer

*MRSL Real-Time Systems Laboratory*

July 2024 – Present

Sarasota, FL

- Contributing to the maintenance and evolution of a mature, real-time signal processing framework.
- Leading development of a Rust crate that provides a safer interface to the framework's C++/Fortran libraries.
- Designed tools to measure code coverage for the framework's domain-specific scripting language.

### Software Engineering Intern

*MRSL Real-Time Systems Laboratory*

May 2023 – August 2023

Sarasota, FL

- Worked closely with performance-critical digital signal processing (DSP) applications in C++.
- Designed a concurrently-executed DSP algorithm to operate across pods in a Kubernetes cluster.
- Programmed entirely on a remote instance hosted on AWS EC2.

### Peer Mentor (Teaching Assistant)

*CEN3031: Intro to Software Engineering*

September 2023 – May 2024

University of Florida

- Used Docker to containerize and deploy a full-stack React app for students to contribute to.
- Coordinated course materials, held office hours, and gave lectures on topics related to software engineering.

### Technical Lead

*Open-Source Club*

September 2022 – Present

University of Florida

- Managed twice-weekly discussions and working sessions for various open-source projects.
- Led a group of students dedicated to the development and usage of APIs of various complexities.

## PROJECTS

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### PearTerm

*Personal*

Ongoing

- Created a terminal and shell in Typescript to emulate the functionality of a UNIX/sh system.
- Implemented parsing of the shell language aligned with POSIX shell standards.
- Created shell built-ins, such as `ls`, `cd` and `cat`, to interact with an in-memory filesystem.

### PLC Language Compiler

*COP4020: Programming Language Concepts*

April 2023

University of Florida

- Designed and implemented a compiler for an academic language.
- Included parsing program text to an AST and Java source code generation.