

# William Blake Crawford

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## EDUCATION

### University of Florida

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics

**Relevant Coursework:** Programming 1 (Python), Programming 2 (C++),  
Data Structures and Algorithms

Gainesville, Florida

Expected May 2026

GPA: 4.00/4.00

## TECHNICAL SKILLS

**Languages:** Python, C++, Lua, JavaScript, HTML/CSS

**Tools and Frameworks:** Git, React, Node, Flask, Firebase, Leaflet.js, Roblox Studio, Vercel

## PROJECTS

### Gainesville Crime Heatmap

[crwfrd.github.io/#gainesville-crime](https://crwfrd.github.io/#gainesville-crime)

- A web app highlighting top crime locations and emergency help in Gainesville, tailored to user filters
- Implemented the interactive map and user interface using **Flask**, **JavaScript**, **HTML/CSS**, and **Leaflet.js**.
- Created an algorithm to convert **210k crime points** to a latitude-longitude array paired with offense count
- Sorted offense count array using heap/shell sort, simultaneously calculating distinct sort operation costs.

### Strange Showdown

[crwfrd.github.io/#strange-showdown](https://crwfrd.github.io/#strange-showdown)

- A free-for-all round-based fighting game made using **Roblox Studio** engine and **Lua** coding language.
- Wrote an **API** to manipulate a custom-made set of checks/values on each player model.
- Formulated game flow to run rounds, prompt GUI, incorporate new players, and update player datastore.

### GatorRelator

[crwfrd.github.io/#gator-relator](https://crwfrd.github.io/#gator-relator)

- A **React-based** website for UF alumni to connect via shared majors, years, organizations, and workplaces.
- Constructed a **Firebase Firestore** database to organize user information, indexed by **FireAuth** UIDs

## EXPERIENCE

### University of Florida CISE

Gainesville, FL

Teacher Assistant, Programming Fundamentals 1

Jan. 2024 - May 2024

- Taught weekly sections with **50 students** about object-oriented programming, looping/branching, procedural/data abstraction, and program modularity through **Python**.
- Graded and identified algorithm errors in varying programming exams, projects, and homework.
- Prepared review material and presentations on programming fundamentals for **~500 students**.

## INVOLVEMENT

### Freshman Leadership Engineering Group (FLEG)

Gainesville, FL

Collegiate Director

May 2024 - Present

- Leading **10 undergraduate students** in planning **monthly** events to promote student collegiate growth
- Holding **bi-weekly** office hours to aid freshman engineers in their curricular decisions and pursuits
- Working with a **20-member** executive team to make decisions on behalf of the entire organization.

Professional Affairs Ambassador

Sep. 2023 - May 2024

- Coordinated sessions on resumes, interviews, and professional preparation for engineering freshmen.
- Compiled a bank of **25+** upperclassmen resumes and a resume resource list of **280+** items for freshmen.
- Hosted a gameshow for **60+** engineering students to spark excitement for career development