

# William Blake Crawford

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## EDUCATION

### University of Florida

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics

GPA: 4.00/4.00

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

Gainesville, Florida

Expected May 2026

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## TECHNICAL SKILLS

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

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

## PROJECT EXPERIENCE

### Gainesville Crime Heatmap

- Built a front-end map interface using **JavaScript**, **HTML/CSS**, and the **Leaflet.js** library for users to maneuver, input heatmap details, and see emergency help and top crime locations around Gainesville
- Developed an algorithm that converted **210K crime data points** into a latitude-longitude array and then sorted by crime count using heap and shell sort, simultaneously calculating respective sort operation cost

### Strange Showdown

- A free-for-all round-based fighting game made using **Roblox Studio** engine and **Lua** coding language
- Created 6 characters with **30 unique abilities** total along with 3 custom maps
- 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

- Designed a website using **React**, **Flask**, and **Firebase** which allows UF students/alumni to create accounts and connect based on shared majors, years, campus organizations, and places of work

## LEADERSHIP EXPERIENCE

### University of Florida CISE

Teacher Assistant, Programming Fundamentals 1

Gainesville, FL

Jan. 2024 - Present

- 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**

### Freshman Leadership Engineering Group (FLEG)

Collegiate Director

Gainesville, FL

May 2024 - Present

- Led **10 undergraduate students** in planning **monthly** events, workshops, and showcases for college freshmen to learn collegiate skills and grow academically
- Became a mentor for a freshman engineer, planned weekly meetings, and held bi-weekly office hours along with working with a **20-member** team to make decisions on behalf of the entire organization

### Professional Affairs Ambassador

Sep. 2023 - May 2024

- Worked with fellow students to coordinate informational sessions on resumes, interviews, and overall professional preparation for college freshman
- Created a resume bank of over **25** talented upperclassmen resumes along with a major-specific resource list of over **280 items** to build freshman resumes