

# DIEGO GRISALES

Senior Software Engineering Student

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## EDUCATION

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### Florida Gulf Coast University

Bachelor of Science Software Engineering - ABET Accredited

GPA: FGCU - 3.944, Overall - 3.557

Fort Myers, Florida

August 2019 - December 2023

## EXPERIENCE

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### Amazon Web Services | Software Development Engineer Intern

Seattle, WA | May 2022 - Aug 2022

- Full stack development.
- Elicited requirements.
- Created design documents, designed mock-ups, and high-level design diagrams.
- Added UI components to an internal web portal using TypeScript and React.
- Created API endpoints using Python and Flask to interact with the new components.
- Wrote unit tests for the new functionality.
- All the code implemented during my internship was deployed to production for an internal tool used at AWS S3.
- Worked in an agile environment.
- Gained real-world experience with the entire SDLC.

### U.S. Department of Homeland Security | Software Engineer Intern

Fort Myers, FL | Present

- Elicited requirements for the project using different requirements engineering techniques.
- Created Software Requirements Specification, and Software Detailed Design Document to properly understand the system that needs to be implemented, and to explain the development details to all stakeholders.
- Maintained constant communication with stakeholders to receive feedback and ensure the software would meet the client's needs and satisfies requirements.
- Created and maintained the project using Jira to plan sprints and keep track of all the issues that needed to be completed.
- Software application is in the process of being developed and tested simultaneously.

## SKILLS

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Programming Languages:	Python, JavaScript, Java, C++, TypeScript, HTML
Libraries/Frameworks:	React, Selenium, Flask, NumPy, BeautifulSoup, Pandas, RESTful APIs
Tools / Platforms:	Git, Github, Jira, Figma, SDLC, OOP, Requirements gathering, Software Testing, Software Architecture/Design, Text Mining & NLP, Web Scraping, Agile, Critical Thinking, Problem Solving, Detail Oriented
Databases:	MySQL, Relational Databases

## PROJECTS / OPEN-SOURCE

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### Anti-Human Trafficking Web Scraper

*Python, Selenium, Pandas, PyQt6, BeautifulSoup*

- **FGCU Senior Project - Sponsored by the U.S. Department of Homeland Security.**

The project consists of an open-source desktop software application that scrapes specified web pages in search for posts containing keywords that have been linked to human trafficking. Posts are categorized based on the number of keywords found within the post. The goal of the software is to provide HSI agents with leads to human trafficking posts which will include all the information in the post along with a screenshot.

### Instagram Bot Website | Link

*JavaScript, React, Python, Flask, Selenium*

The front end consists of a website that contains a form to get user input. The payload sent by the POST method form sends the following information to the API endpoint: username, posts, and follow data. The back end was developed using Python, Flask, and Selenium. The `get_likes()` function in `app.py` uses code from the Bot class to interact with Instagram accounts based on the data received.

## **Real Estate Web Scraper - Software Design Patterns | [Link](#)**

*Python, Selenium*

Program developed to web-scrape real estate websites and provide users with up-to-date listing information based on user-entered parameters. The user can select the website to search (three options are currently available), enter the city, the type of property, and the minimum and maximum price to search for. The program will then browse the chosen web page, get information for each listing such as price, address, and description (it varies from site to site), and send all this data to a text file. A screenshot of the search results is taken as well. The program was implemented using the facade and prototype software design patterns.

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## **CERTIFICATIONS**

- Certified Entry-Level C Programmer - CLE - **C++ Institute** | **Certification Code: ZfRD.C685.JYQ2**
- Certified Entry-Level C++ Programmer - CPE - **C++ Institute** | **Certification Code: ByTx.nwBL.oxXf**
- Certified Entry-Level Python Programmer - **OpenEDG Python Institute** | **Certification Code: fjPa.zrPb.jM0R**

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## **HONORS & AWARDS**

Dean's List of the U.A. Whitaker College of Engineering - Fall 2021 - FGCU  
Dean's List of the U.A. Whitaker College of Engineering - Spring 2022 - FGCU  
President's List of the U.A. Whitaker College of Engineering - Fall 2022 - FGCU  
Foundations Of Leadership Certificate 1 - The National Society Of Leadership And Success  
Foundations Of Leadership Certificate 2 - The National Society Of Leadership And Success