

# 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 - 3.95, Overall - 3.60

Fort Myers, Florida

Aug 2019 - Dec 2023

### Florida Gulf Coast University

Associate of Arts

GPA: FGCU - 3.94, Overall - 3.55

Fort Myers, Florida

Aug 2019 - Dec 2022

## EXPERIENCE

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### Amazon Web Services | Software Development Engineer Intern Seattle, WA | May 2023 - Aug 2023

- Elicited requirements using different requirements elicitation techniques.
- Created design documents.
- Developed backend code for metric collection.
- Implemented an automated workflow using AWS Step Functions and other native AWS services.
- Wrote unit tests for the new functionality.
- Utilized Golang, Java, TypeScript, and Shell Script for development tasks.
- All the code implemented during my internship was deployed to AWS S3 production level worldwide.
- Worked in an agile environment.
- Gained real-world experience within the entire SDLC.

### 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 UI components.
- Wrote unit tests for the new functionality.
- All the code I implemented was deployed to production for an internal tool used at AWS S3.
- Worked in an agile environment.
- Gained real-world experience within the entire SDLC.

### U.S. Department of Homeland Security | SE Senior Project Fort Myers, FL | Sep 2022 - May 2023

- Elicited requirements using different requirements engineering techniques.
- Created Software Requirements Specification, and Software Detailed Design Documents to understand the software to be implemented.
- Maintained constant communication with stakeholders to receive feedback and ensure the software would meet the client's needs and satisfy the requirements.
- Created and maintained the project using Jira to plan sprints and keep track of all the issues that needed to be completed.
- Developed a desktop application using Python, PyQt6, Selenium, and Pandas.
- Created an executable using PyInstaller.
- Released Windows and MacOS versions on GitHub.
- Wrote unit tests using PyTest.

### U.A. Whitaker College of Engineering | Research with Dr. Anna Koufakou Fort Myers, FL | Jan 2023 - May 2023

#### AI and Deep Learning: Exploring the Impact of Data Augmentation on Text-based Emotion Recognition

- Investigated the impact of different data augmentation techniques on model performance for emotion recognition through extensive experimentation.
- Augmented datasets using different models including EDA, Embedding, BertAug, ProtAug, and ChatGPT API.
- Results showed that data augmentation overall improves model performance when working with limited training data.

## SKILLS

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Programming Languages:	Python, GoLang, JavaScript, Java, C++, TypeScript, Bash, HTML
Libraries/Frameworks:	React, NodeJS, ExpressJS, Flask, NumPy, BeautifulSoup, Pandas, RESTful APIs, NLTK, Spacey, PyTorch, Scikit Learning, RegEx, PyQt6, PyTest, TestNG, Selenium
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, Google Colab
Databases:	MySQL, SQLite, Relational Databases

## PROJECTS / OPEN-SOURCE

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### **FGCU Senior Project - Web Scraping Tool for Homeland Security Investigations' Anti Human Trafficking Efforts | Link** *Python, Selenium, Pandas, PyQt6, PyTest*

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.

### **SpendWisely - Expense Tracker Web App (work in progress) | Link** *JavaScript, React, Express.js, MySQL*

Implemented a full-stack development project: Expense Tracker web application specifically designed for college students. This website enables users to manage and monitor their finances by categorizing transactions and generating detailed financial reports along with other visuals. The front end was built using JavaScript and React, while the back end was developed using JavaScript, Express.js, and MySQL.

### **Real Estate Web Scraper - Software Design Patterns | Link** *Python, Selenium*

The program scrapes select real estate sites, offering current listings based on user criteria like city, property type, and price range. It extracts details like price, address, and description, saves them to a text file, and captures a screenshot of the results. Developed using the facade and prototype design patterns.

## CERTIFICATIONS

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- 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
- Go Essential Training - LinkedIn Learning certificate
- Certified Tester, Foundation Level (CTFL) - ISTQB (International Software Testing Qualifications Board)

## HONORS & AWARDS

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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 Florida Gulf Coast University - Fall 2022  
President's List of Florida Gulf Coast University - Spring 2023  
Foundations Of Leadership Certificate 1 - The National Society Of Leadership And Success  
Foundations Of Leadership Certificate 2 - The National Society Of Leadership And Success