Diego Grisales

Senior Software Engineering Student
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Education

Florida Gulf Coast University — Fort Myers, Florida
Bachelor of Science Software Engineering - ABET Accredited — Aug 2019 - Dec 2023
GPA: FGCU - 3.944, Overall - 3.557

Florida Gulf Coast University — Fort Myers, Florida
Associate of Arts — Aug 2019 - Dec 2022
GPA: FGCU - 3.944, Overall - 3.557

Experience

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 with the entire SDLC.
- Internship return offer for summer 2023.

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

Programming Languages:	Python, JavaScript, Java, C++, TypeScript, HTML, GoLang
Libraries/Frameworks:	React, Selenium, Flask, NumPy, BeautifulSoup, Pandas, RESTful APIs, NLTK, Spacey, PyTorch, Scikit Learning, RegEx, PyQt6, PyInstaller, PyTest, TestNG, Maven
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, Relational Databases

Projects / Open-Source

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

- **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*

A front-end website created with JavaScript and React has a form that collects user input and transmits it to a backend REST API endpoint made with Python, Flask, and Selenium. The payload data consists of username, posts, and follow. The backend executes actions on Instagram accounts using the received data.

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.

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

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