DIEGO GRISALES

Senior Software Engineering Student

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EDUCATION

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

Florida Gulf Coast University   Fort Myers, FL
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 - Present
- 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. Koufakou at FGCU   Fort Myers, FL | Jan 2023 - Present
> **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 the datasets using different models including EDA, Embedding, BertAug, ProtAug, and ChatGPT API.
- Results showed that data augmentation overall improves model performance when we have 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*
  The program was developed using the facade and prototype design patterns to scrape real estate websites and provide users with up-to-date listings based on their search criteria. Users can choose from three websites, enter city, property type, and price range, and get information for each listing such as price, address, and description. The program saves the data to a text file and takes a screenshot of the search results.

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**

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