DIEGO GRISALES

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INTRODUCTION

Currently pursuing a Bachelor of Science in Software Engineering. Gained hands-on experience during two internships at Amazon Web Services and through a collaborative project with the U.S. Department of Homeland Security. These opportunities have improved my skills in full-stack development, requirements elicitation, software design, and software testing. Experienced in multiple programming languages, and well-versed with several frameworks. Recognized for academic achievements and holding industry-relevant certifications. Passionate about leveraging technology for impactful solutions, with a curated portfolio that showcases a range of technical projects. Experienced in guiding projects through the complete software development life-cycle while working in Agile-centric environments.

EDUCATION

Florida Gulf Coast University Fort Myers, Florida
Bachelor of Science Software Engineering - ABET Accredited August 2019 - December 2023
GPA: FGCU - 3.95, Overall - 3.60

Florida Gulf Coast University Fort Myers, Florida
Associate of Arts August 2019 - December 2022
GPA: FGCU - 3.94, Overall - 3.55

EXPERIENCE

Amazon Web Services | Software Development Engineer Intern Seattle, WA | May 2023 - Aug 2023
- Elicited requirements and crafted design documents.
- Developed backend code, focusing on metric collection and an automated workflow using native AWS services.
- Employed Golang, Java, TypeScript, and Shell Scripts in development and ensured unit testing for functionalities.
- Successfully deployed all developed code to AWS S3 at a global production level.
- Operated within an agile framework, gaining comprehensive experience in the entire software development life-cycle.

U.S. Department of Homeland Security | SE Senior Project Fort Myers, FL | Sep 2022 - May 2023
- Gathered software specifications and prepared detailed design documents, ensuring alignment with client needs through regular stakeholder communication.
- Managed project timelines, sprints, and issue tracking using Jira.
- Designed and developed a desktop application utilizing Python, PyQt6, Selenium, and Pandas; later converted to an executable via PyInstaller.
- Released application versions for Windows and MacOS on GitHub and ensured quality through unit testing with PyTest.

U.A. Whitaker College of Engineering | Research Assistant Fort Myers, FL | Jan 2023 - May 2023
- Conducted a deep dive into the impact of data augmentation on text-based emotion recognition using AI and deep learning techniques.
- Experimentally assessed various data augmentation models, including EDA, Embedding, BertAug, ProtAug, and ChatGPT API.
- Demonstrated improved model performance through data augmentation, especially with constrained training datasets.
- Co-authored a paper titled "Data Augmentation for Emotion Detection in Small Imbalanced Text Data", aimed for presentation at the 22nd IEEE International Conference on Machine Learning and Applications, 2023.

Amazon Web Services | Software Development Engineer Intern Seattle, WA | May 2022 - Aug 2022
- Engaged in full-stack development, from eliciting requirements to creating detailed design documents and mock-ups.
- Enhanced an internal web portal with new UI components using TypeScript and React, integrated with backend API endpoints developed in Python and Flask.
- Ensured robustness through unit testing, with all implemented code deployed to a production-level internal AWS S3 tool.
- Worked within an Agile setting, acquiring knowledge across the entire software development life-cycle.

Programming Languages:	Python, Golang, JavaScript, Java, C++, TypeScript, Bash, HTML
Libraries/Frameworks:	React, NodeJS, ExpressJS, Flask, NumPy, BeautifulSoup, Pandas, NLTK, REST APIs, Spacey, PyTorch, Scikit Learning, RegEx, PyQt6, PyTest, TestNG, Selenium, Jest
Tools/Platforms & others:	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

Web Scraping Tool for Homeland Security Investigations *Python, Selenium, Pandas, PyQt6*
- Open-source desktop application designed to scan targeted web pages for content containing specific keywords associated with human trafficking. The software categorizes posts by keyword frequency, aiming to supply HSI agents with potential human trafficking leads, complete with comprehensive post data and associated screenshots.

SpendWisely - Expense Tracker Web App (work in progress) *JavaScript, React, ExpressJS, MySQL*
- Full-stack expense tracking app tailored for college students, enabling financial management via transaction categorization and detailed report generation. Utilized React for the front end and combined JavaScript, Express.js, and MySQL for the back end.

Real Estate Web Scraper *Python, Selenium*
- Program to scrape selected real estate sites for current listings tailored to user-defined criteria such as city, property type, and price range. The tool extracts key details, stores them in a text file, and takes screenshots of the findings, leveraging facade and prototype design patterns.

CERTIFICATIONS

Certified Tester, Foundation Level (CTFL) - **ISTQB (International Software Testing Qualifications Board)**

Go Essential Training - **LinkedIn Learning certificate**

Certified Entry-Level Python Programmer - **OpenEDG Python Institute**

Certified Entry-Level C++ Programmer - CPE - **C++ Institute**

Certified Entry-Level C Programmer - CLE - **C++ Institute**

HONORS & AWARDS

President's List of Florida Gulf Coast University - Spring 2023

President's List of Florida Gulf Coast University - Fall 2022

Dean's List of the U.A. Whitaker College of Engineering - Spring 2022 - FGCU

Dean's List of the U.A. Whitaker College of Engineering - Fall 2021 - 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