

# Dominick Dupuy Desangles

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## EDUCATION

**Bachelor of Science, Computer Science; Bachelor of Science, Finance**

**May, 2027**

University of Florida; Dean's List

**GPA: 3.96**

## WORK EXPERIENCE

### Freelancer

**June 2024 - Sept 2024**

Supermercados La Cadena

*Santo Domingo, Dominican Republic*

- Created valuable daily reports through a Django web app for one of the largest supermarket franchises in the DR. The technology uses the firm's surveillance footage, Yolov10 and OpenCV to collect consumer data and preferences with 95% accuracy. The data can then be used to reduce labor costs and improve decision-making.

### Junior Full-Stack Developer

**April 2024 - Sept 2024**

CCI Puesto de Bolsa

*Santo Domingo, Dominican Republic*

- Leveraged the Django framework to digitize the client-employee interface through CCI's company website, increasing consumer retention. The website digitized a tedious activity that was formerly designed to be submitted in person, thus elevating satisfaction and lowering the barrier for newer clients who wanted to invest their funds.

## PROJECTS

### AI Lecture Study Tool (In Progress)

**Sept 2024 - Oct 2024**

- Programmed an interactive Django web-app which provides lecture transcriptions, summaries and flashcards with Open AI's API and Whisper library for ADHD students who have trouble paying attention in class.

### Neural Network & Quantitative Analysis

**Aug 2024 - Sept 2024**

- Developed a back-propagated dynamic neural network in Python which alters its node structure at random chance to prevent overfitting. The network went through a training phase where it received stock data and relative indicators such as RSI, MACD, SMA, %K, %D and others to predict buy-sell signals with 52% accuracy.

### Stock Portfolio Builder

**July 2024 - Sept 2024**

- Developed a sophisticated software platform managing a \$150,000 investment portfolio. Utilizing advanced AI and statistical models, it optimizes risk management and offers valuable data analytics to aid decision making.

### Blockchain

**June 2024 - July 2024**

- Developed a blockchain protocol in Go featuring RSA encryption, transaction signatures, Merkle roots, and a proof-of-work consensus algorithm, ensuring accurate validations in a P2P network capable of data mining.

### Econ-Surge

**May 2024 - June 2024**

- Created a Django website utilizing real-time Alpha Vantage API calls to compile economic and investment data. By storing user-specified data in an SQL database, query times were slashed by 97.6%.

## INVOLVEMENT

- **Algo Gators:** Programmed systematic futures trading strategies after cleaning contract data for fin. instruments.
- **SHPE:** Mentor and Director of the Society of Hispanic Professional Engineers for CS underclassmen.
- **Machine Learning Club:** Programmed packet drivers and ROS-2 DVL software for an autonomous submarine.
- **SCLA Honors:** Member of Society for Collegiate Leadership and Achievement for academic achievement.

## SKILLS

**Prog. languages:** Python, Go, C/C++, R, JavaScript, HTML, CSS, SCSS, SQL, Matlab

**Technologies:** Django, TCP/UDP, Godot, Oracle, Yolov8, NEAT, Tensorflow, PyTorch, Figma, PowerBI, Exel

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Azure (SaaS), AWS, PyCharm, Atlassian; Jira

**Spoken Languages:** English (Fluent), Spanish (Fluent)