

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

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%.

Flappy Bird AI

Jan 2022 - Feb 2022

- Integrated a Neural Networks through Augmented Topologies (NEAT) protocol onto a Flappy Bird simulation. Optimized the NEAT algorithm for efficient neuroevolution, resulting in improved AI performance over time.

INVOLVEMENT

- **Machine Learning Club:** Programmed packet drivers and ROS-2 DVL software for an autonomous submarine.
- **Robotics Competition:** Programmed and helped construct our high school's First Robotic Competition robot.
- **SHPE:** Mentor and Director of the Society of Hispanic Professional Engineers for CS underclassmen.
- **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)