

JUAN E. PEÑUELA

(561)–507–9993 | penuelajuanesteban30@gmail.com | Portfolio: <https://tinyurl.com/juanex>

SKILLS

Programming: Java, Python, C, JavaScript, HTML, CSS.

Frameworks: PyTorch, TensorFlow, Scikit-learn.

Technologies: React, Git, Node.js, Firebase, Raspberry Pi.

PROJECTS

Logistic Regression and Gradient Descent Models

- Developed predictive models for large amounts of data in 2D and 3D utilizing gradient descent.
- Implemented logistic regression and gradient descent models, tuning hyperparameters to optimize performance with *PyTorch*, *NumPy*, and *Pandas* libraries in Python.
- Final model achieved a significant 85% improvement in model accuracy.

Hackathon Project: Stock AI

- Led the development of a Machine Learning model that predicts the stock market and cryptocurrencies using historical data during the “Knight Hacks 2023” hackathon.
- The model was built using Scikit-Learn, Python, Pandas, and TKinter libraries. The data was gathered from the Yahoo Finance API.

Hackathon Project: Ticket and Fix It

- Created a workflow management system within the short time span of 36 hours during the “Hack my city 2022” hackathon.
- Collaboratively led the development of the application utilizing *Node.js*, *JavaScript*, *Firebase*, *HTML*, and *CSS* to integrate features such as a heatmap and a ticket upvoting to enhance user engagement.
- Successfully delivered and presented the application during the hackathon that allowed users to upload pictures and create tickets.

EDUCATION

UNIVERSITY OF CENTRAL FLORIDA, Orlando FL
Accelerated B.S to M.S in **Computer Science**

Graduation: 05/2025
Cumulative GPA: 3.6/4.0

WORK EXPERIENCE

ESL and Math Tutor at Youth Co-Op Inc.

- Provided remote tutoring sessions to high school and middle school students in English as a second language and high school level mathematics.
- Successfully tutored a diverse group of over 40 students through private one-on-one sessions, resulting in several success stories from foreign students who were able to graduate.

Peer Knight Coach at University of Central Florida

- Provided academic coaching for transfer students coming to UCF to navigate the campus and resources, helping them get involved in campus activities, and providing guidance in major exploration.
- Led and guided a group of more than 20 students to improve their college experience through peer coaching.

Student Assistant at Palm Beach State College

- Collaborated with faculty members and the Dean to conduct research on Artificial Intelligence and Computer Science programs, assisting in program development.
- Facilitated the creation of new programs at PBSC, utilizing research, organizational, and teamwork skills.

AWARDS AND ORGANIZATIONS

Knights Of Distinction at University of Central Florida

KnightHacks at University of Central Florida

Society of Hispanic Professional Engineers at University of Central Florida