Andrea Arturo Venti Fuentes

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EDUCATION:

Bachelor of Science in Computer Science, Minor in Mathematics Spring 2023 – Fall 2025
University of Miami (UM), Coral Gables, FL GPA: 3.8 / 4.0

Bachelor of Science in Computer Science Fall 2020 – Fall 2022
Nova Southeastern University (NSU), Davie, FL GPA: 3.7 / 4.0

PROFESSIONAL EXPERIENCE:

Calculus and Python Programming Tutor September 2023 - Active
University of Miami, Camner Center for Academic Resources, Coral Gables, FL
- Significantly enhanced UM students' comprehension of calculus and Python programming concepts.
- Demonstrated strong communication skills in explaining complex subjects clearly, facilitating student understanding, and enabling improved grades and coding proficiency.
- Effectively applied problem-solving techniques to address challenging calculus and Python problems.

Career Development and Outreach Chair May 2023 – Active
Google Developer Student Clubs, Coral Gables, FL
- Enhanced student support through resource curation, yielding a 20% increase in successful undergrad job placements.
- Elevated professional development via engaging events, achieving a 30% rise in attendee satisfaction and career growth.
- Fostered industry collaboration, leading to a 25% boost in partnerships and enriched opportunities.

PROJECTS:

PyPassManager – **Side Project** // *Python, Cryptography (Fernet), Colorama, Tabulate, Pwinput*
- Strengthened data security through a Python CLI password manager with Fernet encryption algorithm.
- Attained 256-bit encryption, sub-50ms key generation, and sub-100ms user authentication.
- Ensured meticulous safeguarding of sensitive data through a robust file-based system.

PlanetPath – **UHack Hackathon Project (2ⁿᵈ place)** – Web App // *Python, Streamlit, Geopy*
- Created PlanetPath, a web app that promotes environmental awareness, for UHack Hackathon.
- Used Python, Streamlit, and Geopy to build an interactive app that calculates distances and carbon emissions.
- Educated and empowered users to make sustainable transportation choices and reduce CO2 impact.

Weather Alert Service – **Side Project** // *Python, API Integration (OpenWeatherMap and Twilio), SMS Implementation*
- Built a Python Weather Alert Program that integrates OpenWeatherMap and Twilio APIs.
- Enabled real-time weather updates with user-friendly temperature conversions and SMS alerts.
- Showcased proficiency in Python, API integration, and user-centric solution design.

SKILLS:

Programming Languages: Python, Java, C/C++, HTML/CSS
Development Tools: Git, GitHub, Version Control, Bash, Docker, Jupyter, VS Code, IntelliJ IDEA, PyCharm
Frameworks: Flask, PyTorch, TensorFlow
Libraries: Cryptography, Requests, Streamlit, NumPy, Pandas
Operating Systems: macOS, Linux, Windows
Languages: Native/Bilingual Proficiency in Spanish and English

HONORS & AWARDS:

UM – Provost Honor Roll Spring 2023
UM – Dean's List Spring 2023
UM – UHack Hackathon (2ⁿᵈ Place) Spring 2023
NSU – Dean's List Fall 2021, Spring 2022