

Andrea Arturo Venti Fuentes

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EDUCATION:

Bachelor of Science in Computer Science, Minor in Mathematics

University of Miami (UM), Coral Gables, FL

Spring 2023 – Fall 2025

GPA: 3.77 / 4.0

PROFESSIONAL EXPERIENCE:

Career Development and Outreach Chair

May 2023 – Active

Google Developer Student Clubs, Coral Gables, FL

- Effectively led student support initiatives, organized development events, and fostered industry collaborations, significantly enhancing student career opportunities and networks.

Calculus, Java, and Python Tutor

September 2023 – December 2023

University of Miami, Camner Center for Academic Resources, Coral Gables, FL

- Successfully improved UM students' understanding and performance in calculus, Java, and Python through innovative teaching methods and effective problem-solving strategies.

PROJECTS:

FlaskKeyring // Python, Flask, JavaScript, PostgreSQL, HTML/CSS, Bootstrap, jQuery, Heroku

- Developed a full-stack password manager, showcasing expertise in both frontend and backend development.
- Integrated Flask with a PostgreSQL database for secure data handling, alongside Fernet encryption for robust data protection.
- Implemented advanced features including user authentication, password reset via Flask-Mail, and dynamic templating with Jinja2.

Weather Alert Program // Python, Twilio API, OpenWeather API

- Developed a Python-based application for real-time weather alerts, integrating OpenWeather API for live updates.
- Utilized Twilio API to send SMS alerts, demonstrating real-time communication and API integration skills.
- Engineered a user-friendly interface for weather tracking, emphasizing practicality and efficient data handling.

Mastermind Game Series // Java, Artificial Intelligence, Algorithm Development, Game Strategy

- Developed a Java-based Mastermind series with progressive difficulty and dynamic AI integration.
- Engineered advanced algorithms for adaptive game complexity and strategic AI challenges.
- Created intuitive interfaces for enhanced player engagement and interactive experience.

macOS Environment Automation // Bash, Unix, Git

- Engineered `mac_bootstrap.zsh`, a Bash script for automating macOS development environment setup.
- Scripted installation and configuration of essential development tools and system settings.
- Utilized Git and GitHub for efficient management and automation of dotfiles and configuration files.

SKILLS:

Programming Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Bash, Lua

Development Tools: Git, Docker, Jupyter, Google Colab, Vim/Neovim, VS Code, IntelliJ, PyCharm, Eclipse

Frameworks & Libraries: Flask, Bootstrap, Jinja2, jQuery, AJAX, Cryptography, Streamlit, NumPy, Pandas, Matplotlib

Databases: PostgreSQL, SQLite

APIs: OpenWeather API, IEX API, Twilio API

Operating Systems: Unix, macOS, Windows

Languages: Fluent in Spanish and English

HONORS & AWARDS:

University of Miami:

- Provost Honor Roll (*Spring 2023*) & Dean's List (*Spring 2023, Fall 2023*)
- UHack Hackathon 2nd Place (*Spring 2023*) – Project Details: [PlanetPath](#)

Nova Southeastern University: Dean's List (*Fall 2021, Spring 2022*)