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: 3.77 / 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, 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.

Mastermind with Progressive Difficulty // *Java, Algorithm Development, Game Design*
- Created an adaptive Java-based Mastermind game with progressive difficulty, enhancing player engagement.
- Devised a unique algorithm for dynamic codeword complexity, offering an increasingly challenging experience.
- Developed an interactive and intuitive user interface, providing instant feedback and enhancing user experience.

macOS Bootstrapping Script // *Bash, Zsh, Git*
- Automated the setup for macOS development environments, ensuring efficient and streamlined configurations.
- Scripted installations of key development tools like Homebrew and Oh My Zsh, including dotfile management.
- Tailored the script for versatility, accommodating various software like Neovim, iTerm2, and VS Code.

FlaskKeyring iOS App // *Swift, WebKit, iOS Development*
- Extended the FlaskKeyring web application to iOS, ensuring seamless functionality and user experience.
- Utilized Swift and WebKit for robust app development, focusing on cross-platform compatibility.
- Prioritized security and user-friendly design, maintaining high standards in mobile app development.

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*)