

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: 3.69 / 4.0

RELEVANT COURSEWORK:

Data Structures & Algorithm Analysis | System Programming | Computer Organization & Architecture | Computer Programming I & II | Discrete Mathematics | Probability and Statistics | Linear Algebra | Calculus I & II | Python Programming | Harvard CS50: Introduction to Computer Science

PROFESSIONAL EXPERIENCE:

Explore Program Manager, INIT University of Miami Chapter

UM, Coral Gables, FL

April 2024 – Present

- Tailored technical workshops to enhance the career readiness of University of Miami students.
- Promoted inclusivity by offering resources to enhance skills and diversify tech.

Career Development and Outreach Chair, Google Developer Student Clubs

UM, Coral Gables, FL

May 2023 – May 2024

- Led technical workshops and events, improving practical tech skills.
- Fostered career growth and inclusivity through partnerships and outreach.

PROJECTS:

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

- Developed a full-stack password manager, showcasing proficiency in frontend and backend technologies.
- Integrated Flask with PostgreSQL for secure data handling, implementing Fernet encryption for data protection.
- Implemented features like user authentication, password reset, and email verification using Flask-Mail.

Portfolio Website // Next.js, React, TypeScript, Tailwind CSS, Vercel

- Created a fast, responsive portfolio website to showcase projects and skills using reusable React components.
- Built with Next.js, TypeScript, and Tailwind CSS, following modern web development practices.
- Implemented AOS animations, Headless UI modals, and Formspree to enhance user engagement.

IndexNet-Engine // Java, Algorithms, Data Structures, PageRank, Web Crawling

- Built a Java-based search engine simulation with web crawling and page ranking algorithms.
- Utilized B-Trees for efficient data indexing and external sorting techniques for large datasets.
- Applied the PageRank algorithm to rank pages by relevance, showcasing advanced algorithmic concepts.

The .dotfiles Project // Git, Bash, Zsh, macOS, Linux, Shell Scripting

- Developed a cross-platform, architecture-aware solution to automate development setups across macOS, Arch Linux, WSL, and Debian using universal shell scripts.
- Automated the installation, management, and configuration of development tools and system settings, significantly enhancing productivity and reducing setup time.

SKILLS:

Programming Languages: Java, Python, C/C++, JavaScript, TypeScript, Bash, Lua, Swift

Web Technologies: Next.js, React, Bootstrap, Tailwind CSS, Flask, jQuery, AJAX, Jinja2, HTML/CSS

Frameworks & Libraries: SQLAlchemy, Matplotlib, NumPy, Pandas, Streamlit | **APIs:** Twilio, OpenWeather, IEX

Databases: PostgreSQL, SQLite | **Tools & Platforms:** Git, Docker, Jupyter, Vercel, Heroku, Netlify, Raspberry Pi

Operating Systems: Linux (Debian, Arch), 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) – [PlanetPath](#)