

# 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 (C, Bash) | Computer Organization & Architecture | Computer Programming I & II (Java, Data Structures & Algorithms) | Discrete Mathematics | Probability and Statistics | Linear Algebra | Calculus I & II | Python Programming | Harvard CS50: Introduction to Computer Science (C, Python)

## PROFESSIONAL EXPERIENCE:

**Explore Program Manager, INIT University of Miami Chapter**

April 2024 – Present

*UM, Coral Gables, FL*

- Developing workshops to enhance students' technical skills and career readiness in software development.
- Curating resources and opportunities to foster an inclusive and diverse tech community.

**Career Development and Outreach Chair, Google Developer Student Clubs**

May 2023 – May 2024

*UM, Coral Gables, FL*

- Organized career development events, including guest speakers and networking, to support student growth.
- Fostered career growth and inclusivity through strategic partnerships and outreach efforts.

## PROJECTS:

**FlaskKeyring** // Python, Flask, JavaScript, PostgreSQL, RESTful API, Bootstrap, HTML/CSS, Jinja, Heroku

- Developed a zero-knowledge password manager with client-side AES-GCM encryption for end-to-end security.
- Built robust RESTful APIs with Flask and used PostgreSQL for secure, encrypted data storage and management.
- Secure user authentication, password reset, and email verification using Flask-Login, Flask-Mail, and Mailgun.

**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:** Python, Java, Go, C, JavaScript, TypeScript, Bash, Swift, Lua, OOP, SQL

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

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

**Databases:** PostgreSQL, SQLite | **Tools & Platforms:** Git, Docker, Vercel, Heroku, Netlify, Jupyter, 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](#)