

# Ruth Velasquez

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## EDUCATION

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### Florida International University

*Bachelor of Science in Computer Science, Minor in Mathematical Sciences*

Miami, Florida

Aug. 2023 – Dec. 2026

## EXPERIENCE

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### Explorer Intern Software Engineering + Program Management

May 2025 – Aug. 2025

*Microsoft*

*Redmond, Washington*

- Worked on the IC3 and AIOps team within the M365 organization, contributing to the development of an incident classification mechanism and integration of structured/unstructured data from the ICM API
- Rotated between PM and SWE roles: defined product requirements, conducted user research, and implemented features using .NET and Visual Studio
- Collaborated with mentors and team members to document tasks in a sprint dashboard, track deliverables, and align with Microsoft's three-part impact model

### Undergraduate Researcher

May 2024 – July 2024

*Rutgers University*

*New Brunswick, NJ*

- Utilized Gaussian curves and other statistical methods to model tumor cell population dynamics and predict growth patterns
- Applied advanced statistical models to clinical datasets, enhancing the accuracy of predictions for cancer progression and drug resistance timelines utilizing Python, Pandas, Scikit-Learn, and SciPy in the Linux environment
- Leveraged insights from statistical analysis to identify indicators of cancer and optimize personalized treatment strategies

### Software Engineering Intern

May 2024

*American Express*

*Sunrise, Florida*

- Created a full-stack application with a team in three weeks, focusing primarily on backend development using FastAPI as a web framework, RestAPI for routing logic, Uvicorn, Pydantic library and Postman for development testing
- Designed and integrated a PostgreSQL database, utilizing database drivers to ensure efficient data management

### Director of Communications

Dec. 2023 – Jan. 2025

*INIT FIU (Tech Non-Profit)*

*Miami, Florida*

- Orchestrated email campaigns and Discord announcements for member recruitment, events, awards, and career opportunities sending more than 100,000 emails to 2,500+ active members
- Organized ShellHacks, a hackathon which had 1400+ participants and 250+ project submissions
- Adhered to brand guidelines in external communications across various platforms to ensure event engagement

## PROJECTS

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### Historic Sites in Charlottesville | *JavaScript, API, Python, Selenium, Tailwind, HTML, and Figma* March 2024

- Completed project in 24 hours, creating a functional website that shows 25 historic markers utilizing Google's Geocoding API and Maps API
- Filtered address data from database with more than 10,000 entries with Python and used Selenium to scrape incomplete data

### Marsh McLennan: Machine Learning on Ports and Ships | *Python and Scikit-Learn* Aug. 2024 – Dec. 2024

- Collaborated with a team of 3 and software engineers from Marsh McLennan to analyze the impact of hurricanes on ports and ships using machine learning
- Conducting data analysis and visualization to identify key factors influencing damage costs, enhancing the model's accuracy and interpretability

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, SQL (Postgres), JavaScript, HTML/CSS, .NET

**Frameworks:** React, Node.js, Flask, FastAPI, Bootstrap

**Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Swagger

**Libraries:** pandas, NumPy, Matplotlib, SciPy, GeoPy, Scikit-Learn, TensorFlow, Seaborn