

# Alejandro Villate

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## EDUCATION

### University of Florida

Gainesville, FL

*Bachelor of Science in Computer Science (GPA - 3.79)*

*Aug. 2022 – Dec. 2026*

### Coursework

*Computational Linear Algebra, Computer Organization, Data Structures and Algorithms, Engineering Statistics*

## EXPERIENCE

### Incoming Site Reliability Engineering Intern

Sep. 2025 - Dec. 2025

*Splunk*

### Production Engineering Intern (MLH Fellowship)

Jun. 2025 - Sep. 2025

*Meta*

- Collaborated with team to deploy a multi-service web app on a remote Linux server, maintaining 99% uptime
- Containerized Flask, MySQL, and NGINX architecture, improving deployment speed and resource usage
- Introduced unit, integration, and system tests achieving 83% coverage, ensuring stable deployments and updates
- Deployed Prometheus/Grafana monitoring stack, providing real-time visibility into system performance and 2 minute incident response time

### TA - Programming Fundamentals 2

Jan. 2025 – May 2025

*The University of Florida*

- Led weekly discussions to 30+ students teaching fundamental topics such as debugging, memory management, and basic data structures in C++
- Assisted 500+ students by debugging ~7 projects and providing 1:1 support to ~10 students weekly in office hours

## PROJECTS

### GraphUF (Web App) | *Flask, Docker Compose, GitHub Actions, Nginx, CoderabbitAI, Python, Bash*

- Developed **Flask** web app with team to explore course prerequisites (courses depending on a given prerequisite)
- Engineered custom **DAG** with **80,000+** nodes, achieving **<1ms** traversal to fetch prerequisites of any course
- Processed **100,000+** raw university scheduling records by building a robust scraping and cleaning pipeline
- Accelerated development workflow for 3 team members by implementing a **CI pipeline** with pre-commit hooks, automated **pytest** unit/integration testing via **GitHub Actions**, and AI code reviews via **CoderabbitAI**
- Deployed to **Linux server** from Docker container, leveraging **Nginx** proxy for production traffic management

### my movies (API) | *Flask, Docker Compose, Redis, React, Python*

- Developed **REST API** integrating with OMDb API, enabling users to manage movie lists with enriched metadata
- Implemented **microservice architecture** with Flask, React, and Redis, containerized with **Docker Compose**
- Configured Redis volume persistence to prevent data loss, ensuring stateful movie tracking across container restarts

### GDocify (CLI Application) | *Google Cloud Platform, Google Docs API, OAuth2, JavaScript*

- Developed **automation tool** leveraging **GCP Docs/Drive API** to convert plaintext files into structured Google Docs, eliminating manual uploads and streamlining document organization
- Implemented **OAuth2** authentication, enabling secure, user-specific access to Google Drive while ensuring compliance with Google's API security best practices

## INVOLVEMENT

### SwampHacks, WiNGHacks (MLH Hackathons)

- Organized marketing initiatives for SwampHacks X (400+ attendance) and mentored for WiNGHacks

### UF Software Engineering Club

- Spearheaded marketing initiatives leading to 38% increase in event turnout compared to previous semester
- Collaborated with team of 10+ to lead workshops on various software engineering topics to 100+ members

## TECHNICAL SKILLS

**Languages:** Python, JavaScript/TypeScript, C++, HTML/CSS, SQL

**Frameworks / Tools:** Linux, Docker/Compose, Flask, Playwright, Pytest, Jest, GitHub Actions, Prometheus, Grafana