

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

MLH Production Engineering Fellow

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
- Participated in tri-weekly standups with 14 fellows to communicate in a fast-paced remote environment

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 to explore course prerequisites (courses depending on a given prerequisite) with team
- 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 unit/integration testing, and AI code reviews
- Deployed to VPS from Docker container, leveraging Nginx reverse proxy for production-ready 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 Google 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)

Volunteer/Organizing Team

- Organized marketing initiatives for SwampHacks X and volunteered as a technical mentor for WiNGHacks

UF Software Engineering Club

Head of Marketing, Workshop Lead

- 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