

ALEJANDRO VILLATE

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EDUCATION

University of Florida

Gainesville, FL

Bachelor of Science in Computer Science (GPA - 3.72)

Aug. 2022 – Dec. 2026

- Coursework: Computer Organization, Data Structures and Algorithms, Engineering Statistics, Software Engineering

SKILLS

Languages: Python, JavaScript/TypeScript, C++, SQL, GQL

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

EXPERIENCE

Site Reliability Engineering Intern

Sep. 2025 - Dec. 2025

Splunk

Gainesville, FL (Remote)

- Supported FedRAMP team in ensuring Splunk cloud offerings met federal security and reliability standards

Production Engineering Intern (MLH Fellowship)

Jun. 2025 - Sep. 2025

Meta

Tallahassee, FL (Remote)

- Developed portfolio web app with containerized **Flask**, **MySQL**, **Nginx microservices** and deployed to Linux server
- Reduced deployment time to **3s** (previously manual) by implementing CD pipeline with **GitHub Actions**
- Achieved **99%** uptime by introducing unit, integration, and system tests achieving **83%** coverage into CI pipeline
- Enabled **120s** incident response time by providing real-time visibility and alerting with **Prometheus/Grafana** stack

C++ Programming Fundamentals Teaching Assistant

Jan. 2025 – May 2025

The University of Florida

Gainesville, FL

- Led weekly discussions to 30+ students teaching fundamental topics like OOP and memory management
- Assisted 500+ students by debugging 7 projects and providing 1:1 support to 10 students weekly in office hours
- Received 100% positive feedback and reviews in end-of-semester survey sent out to 30+ students

PROJECTS

GraphUF | Flask, Docker Compose, GitHub Actions, Nginx, CoderabbitAI, Python, Bash



- Developed **Flask** web app to explore university course prerequisites (courses depending on a given prerequisite)
- Achieved **<1ms** fetching of all prerequisites of any course by engineering custom **DAGs** with **80,000+** nodes
- 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**

my movies | Flask, Redis, React, Docker Compose, Python



- Developed **REST API** integrating with OMDb API enabling users to manage and track movie watch lists
- Improved resilience through service isolation by architecting Flask, React, Redis as **containerized microservices**
- Configured Redis volume persistence to prevent data loss, ensuring stateful movie tracking across container restarts

GDocify | Google Cloud Platform, Google Docs API, OAuth2, JavaScript



- Developed CLI **automation tool** to convert text files into structured Google Docs leveraging **GCP Docs/Drive API**, eliminating manual uploads and streamlining document organization
- Implemented **OAuth2** to enable user-specific authentication to Google Drive compliant with API security rules

Doors | React Native, Firebase, Nativewind, Expo Go, Jest, TypeScript



- Developed **React Native** mobile app for centralized group and event management for local indie music bands
- Integrated **Firebase** for user authentication/management and **NoSQL** document collection database with **Firestore**

EXTRACURRICULARS

SwampHacks, WiNGHacks (MLH Hackathons)

- Organized marketing initiatives for SwampHacks X and mentored for WiNGHacks (400+, 200+ attendance)

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