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, Pytest, Jest, GitHub Actions, Puppet

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 redeployment time from **10min to 2min** by implementing CI/CD pipeline with **GitHub Actions**
- Achieved **99%** uptime by introducing unit, integration, and system tests achieving **83%** coverage
- 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
- Recieved **100%** positive feedback and reviews in end-of-semester survey sent out to 30+ students

PROJECTS

ColorStack Agile Discord Bot | *AWS, boto3, Python, Docker*
- Deployed bot that automates workflows for project teams to ColorStack chapter's Discord server via **EC2** instance
- Automated meeting reporting: templated **Jinja2** HTML report → upload reports to **AWS S3** → issue presigned URL
- Slashed PUT operations by **90%** and reduced cloud costs by implementing a hybrid local/**S3** storage pattern

GraphUF | *Flask, Docker Compose, GitHub Actions, Nginx, CoderabbitAI, Python, Bash*
- Developed **Flask** web app to explore university course postrequisites (courses depending on a given prerequisite)
- Achieved <**1ms** fetching of all postrequisites of any course by engineering custom **DAG**s with **10,000+** 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 Flask **REST API** integrating with OMDb API enabling users to manage and track movie watch lists
- Improved reliability 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

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