JORGE FRAILE

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EDUCATION

Florida State University   Tallahassee, FL
Bachelor of Science in Computer Science   *Aug. 2023 - May 2027*
- **Honors:** Bright Futures Scholarship, Dean's List *(GPA: 3.5/4.0)*.
- **Relevant Coursework:** Advanced Java Programming; Data Structures & Algorithms; Databases; Edge Networks.

TECHNICAL SKILLS

- **Cloud & Platforms:** AWS Cloud Practitioner; EC2, Security Groups; Linux cloud services; service deployment and uptime
- **Operating Systems:** Linux, Windows 11; endpoint support and troubleshooting
- **Systems & Networking:** Linux internals; system monitoring; TCP/IP; subnetting; basic cloud networking
- **Automation & Tools:** Python scripting; workflow automation; ticketing systems; incident tracking; Git; VS Code
- **APIs & Data:** REST API design and implementation; SQL databases
- **Programming Languages:** C/C++, Java, Python
- **Service Concepts:** Service-oriented infrastructure; reliability, scalability, incident response

EXPERIENCE

Systems Administrator (Undergraduate)   *Jan. 2026 - Present*
Florida State University, Department of Computer Science   Tallahassee, FL
- Operate and maintain Linux-based computer lab environments supporting 200+ active users across 50+ machines
- Diagnose and resolve system failures including network issues, authentication problems, and service outages
- Support production systems used by hundreds of users daily with zero tolerance for downtime
- Monitor system health and availability to minimize downtime during class and research hours
- Investigate system logs and machine behavior to identify root causes of incidents
- Document system configurations and recovery procedures

Technical Support & Device Repair Technician   *Jan. 2020 - Present*
Independent Contractor   *Miami, FL*
- Configure, repair, and maintain hundreds of user systems including laptops, desktops, mobile devices, and networks.
- Diagnose OS, driver, and hardware failures and implement long-term corrective solutions instead of one-off fixes.
- Performed system rebuilds, OS reinstalls, and data recovery to restore functionality and prevent repeat failures.
- Investigated system failures and implemented durable fixes to prevent recurring outages

CLOUD & OPERATIONS PROJECTS

Cloud Project – AWS EC2 REST API Service (Linux) | Python
- Deployed a Linux-based REST API on AWS EC2 using systemd and gunicorn
- Implemented health checks, logging, and failure detection to monitor service uptime
- Simulated service failures and validated recovery behavior
- Configured services for automatic restart and fault recovery
- Debugged production issues using logs and system metrics

Pokemon Simulator | *C++*
- Built a C++ simulation engine modeling turn-based combat and state transitions across 100K+ simulated battles.
- Implemented deterministic state management and randomness to enable reproducible debugging and performance.
- Designed efficient data structures and simulation loops to minimize CPU time under large-scale workloads.
- Added logging and validation checks to detect invalid states, rule violations, and edge-case failures.

PROFESSIONAL DEVELOPMENT

AWS Cloud Club (AWS labs / Projects), *ACM* (Programming Competitions), *Color Stack* (community leadership)