Gloria Djonret

Djonretglo@gmail.com | Linkedin: Gloria Djonret | Website: gloria-djonret.com

SKILLS

Languages: Python, Java, JavaScript, C/C++, Bash
Systems Knowledge: Machine learning, Distributed Systems, Networking, Unix/Linux, Security Systems, Computer Vision.
Tools: Docker, AWS, Apache Superset, Git
Databases: MongoDB, PostgreSQL, SQL
Frameworks: React.js, Spring Boot

EXPERIENCE

SATELLITE & UAV VOLCANO MONITORING SYSTEM | **C++, Zigbee, IOT**

Research Project | June 2025 – Present

• Advancing space imaging research through a **NASA-funded nanosatellite mission**, developing an onboard **Jetson TX2 system** to autonomously **capture and process high-resolution lunar imagery** during **targeted lunar phases** for optimal data yield.

•Designing an **autonomous multi-UAV network** to **enhance volcanic monitoring and safety**, enabling **real-time environmental data collection** from **hazardous zones**.

• **Developed and tested** a **Zigbee-mesh communication system** and **real-time UAV navigation software** enabling **fault-tolerant, low-power telemetry** from **10+ sensor nodes** to a **central ground station**, with **planned deployment in Mexico's active volcanoes**.

FREELANCE | **React.js, MongoDB, API Integration, Full Stack Development**

Freelance Software Engineer | Jan 2023 – Present, Remote

• Built and deployed **custom full-stack web solutions** for **6+ small business clients** using **React, Spring Boot, and PostgreSQL**, integrating **payment, booking, and analytics dashboards** to **streamline operations and boost revenue visibility**.

• **Led end-to-end client engagements** from **requirements and design to deployment and maintenance** delivering **scalable, user-focused systems** and maintaining **100% client satisfaction**.

SIEMENS | **Python, Bash, Java, Docker, Distributed Systems**

Software Engineer Intern | June 2024 – Aug 2024, Fremont, CA

• **Developed and deployed Python and Bash automation scripts** in **Unix/Linux environments** to **streamline data extraction and analysis** from **distributed systems via the Jira REST API**, reducing manual reporting time and improving data accuracy.

• **Designed and containerized interactive analytics dashboards** using **Apache Superset and Docker** to **visualize engineering performance metrics** across teams in real time.

• **Delivered actionable insights** that enabled **engineering managers to identify process bottlenecks, reduce ticket cycle times by up to 20%, and improve overall team efficiency**.

CIRCUILT LAUNCH | **Python, C/C++, Machine Learning**

Automation Engineer Intern | June 2021 – Aug 2021, Oakland, CA

• Built a **Raspberry Pi–based autonomous vehicle prototype** to **explore low-cost navigation systems**, implementing **real-time sensor integration and control algorithms** in **C and Python**.

• **Optimized path planning and motion control** through testing and data-driven tuning, achieving **95% navigation accuracy** in varied conditions.

EDUCATION

SAN JOSE STATE UNIVERSITY
MS in Software Engineering
December 2024 | San Jose, CA
College of Engineering

SAN JOSE STATE UNIVERSITY
BS in Computer Engineering
December 2022 | San Jose, CA
College of Engineering

LEADERSHIP

Operations Supervisor, SJSU
Led a team of 8+ staff, enforced operational protocols, and managed emergency responses to ensure patron safety.

Computer Science Grader, SJSU
Oversaw grading for coursework submissions from 90+ students in CS147 (Computer Architecture)

Coursework

Machine Learning
Operating Systems
Enterprise App Development
Information Security
Cloud Technologies
Data Mining
Object-Oriented Analysis and Design

Links

Personal Website: gloria-djonret.com
Github: **Gdjonret**
Linkedin: **Gloria Djonret**

LANGUAGES

English: Proficient
French: Proficient

CERTIFICATION

Meta Back End Professional Certificate
Basic Content Management System Certificate