

Gloria Djonret

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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.

[CIRCUIT 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