

# DIEGO SARINA

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## ABOUT ME

With over 5 years of experience as a **DevOps Engineer** and **Electronic Engineer** (5-year program), I have built a strong background across multiple domains, including infrastructure, automation, programming, and Artificial Intelligence.

I am passionate about continuous learning and have deepened my knowledge in AI, which led me to complete a **postgraduate specialization in Artificial Intelligence**.

I aim to apply my academic AI background to industrial and medical applications, combining my development and deployment expertise with Machine Learning solutions for real-world implementation.

## SKILLS

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| <b>Languages:</b>                          | English (Advanced), Spanish (Native)  |
| <b>Programming, Databases &amp; Tools:</b> | Python, C, Bash, Git, PostgreSQL, Linux, GitHub Actions, GitLab CI/CD   |
| <b>Artificial Intelligence:</b>            | TensorFlow, PyTorch, YOLO, Scikit-Learn, OpenCV, Pandas, NumPy, MLOps (MLflow), AI-based Observability Systems  |
| <b>Development Frameworks:</b>             | FastAPI, Flask, REST API, CI/CD Pipelines, Monorepo Management  |
| <b>Cloud &amp; DevOps:</b>                 | Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Kubernetes, Helm, Terraform, Ansible, Jenkins, ArgoCD, Vault, Keycloak, SSO Integrations, Slurm, NVIDIA CUDA Stack, AWS DLAMI, HPC Cluster Management |
| <b>Monitoring &amp; Observability:</b>     | Prometheus, Grafana, Loki, Zabbix, Fluent Bit   |
| <b>Security &amp; Compliance:</b>          | Identity Management (Keycloak, IAM, Cognito), Infrastructure Hardening, Secrets Management (Vault), Secure CI/CD Practices  |

## EXPERIENCE

### Renaiss

*DevOps Engineer & Engineering Manager*

Rosario, Argentina

Jan 2024 - Present

- Led a full-scale infrastructure modernization using Terraform and AWS, defining automation and deployment standards across all environments.
- Architected and maintained CI/CD pipelines (GitLab, GitHub Actions, Jenkins), reducing build times from 60 minutes to under 5 minutes by applying optimized caching and dependency strategies.
- Designed and deployed observability stacks with Prometheus, Grafana, and Loki, integrating AI-based anomaly detection systems to improve incident prediction and monitoring.
- Drove the company-wide migration toward containerization and Kubernetes adoption, leading the implementation and standardization of Helm-based deployments.
- Improved corporate application security by implementing SSO authentication flows and self-hosting Keycloak for centralized user management and onboarding.
- Led the consolidation of multiple repositories into a single monorepo with over 60,000 commits, preserving full git history and improving development workflow consistency.
- Managed a multidisciplinary team across DevOps, AI, and backend projects, ensuring technical excellence and delivery alignment with strategic goals.

### Teracode

*Operations Lead – Assigned to Bose*

Rosario, Argentina

Aug 2023 - Dec 2023

- Oversaw and maintained Airflow job reliability through proactive monitoring and troubleshooting.
- Drove performance improvements in Airflow DAGs and AWS environments, implementing observability best practices.
- Improved cost efficiency and operational visibility by refining monitoring and logging standards across teams.

**Nextira***DevOps Engineer – Assigned to Meta*

Rosario, Argentina

Oct 2020 - May 2023

- Administered and optimized a High-Performance Computing (HPC) cluster of over 1,000 A100 GPU instances, managing job scheduling with Slurm and workload orchestration.
- Integrated and maintained PyTorch environments with AWS DLAMI images and NVIDIA CUDA drivers during early adopter phases, ensuring full compatibility for distributed deep learning workloads.
- Built and maintained CI/CD pipelines (GitHub Actions, AWS CodePipeline, CodeBuild) to automate HPC deployments and backend testing.
- Implemented Infrastructure as Code (Terraform, CloudFormation) for scalable cluster and application management.
- Developed and maintained automated testing frameworks using Pytest and Unittest to ensure backend reliability.
- Participated in on-call rotations managing IAM, Cognito, and infrastructure security operations.

**Incluit***Software Engineer & Cloud Engineer*

Rosario, Argentina

Jul 2019 - Aug 2020

- Developed a cloud-based platform for launching ephemeral high-performance computing (HPC) clusters using AWS services including Lambda, S3, CloudFormation, SQS, SNS, CodePipeline, FSx, IAM, and Cognito.
- Implemented Infrastructure as Code (IaC) with Terraform to automate environment provisioning and resource management.
- Designed and optimized backend services in Python to support cluster orchestration and data processing workflows.

**Universidad Nacional de Rosario***Assistant Professor*

Rosario, Argentina

Jan 2017 - Jul 2017

- Taught algorithmic thinking, data structures, and C programming to undergraduate engineering students.
- Provided mentorship and technical support to help students strengthen programming and problem-solving skills.

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**EDUCATION****Universidad Nacional de Buenos Aires***Postgraduate Specialization in Artificial Intelligence*

Buenos Aires, Argentina

Mar 2024 - Oct 2025

**Universidad Nacional de Rosario***B.Sc. Electronic Engineering*

Rosario, Argentina

Mar 2014 - Oct 2023

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**ACADEMIC PROJECTS****Machine Learning Platform for Dental Diagnostic Assistance***AI Specialization Thesis**Computer Vision, Deep Learning, Medical Imaging, Streamlit, FastAPI, PostgreSQL, Docker*

Developed a machine learning platform for the automatic detection of dental pathologies such as caries, impacted teeth, and periapical lesions from panoramic X-rays. The solution integrates deep learning models for detection and classification, automated reporting, and a web-based interface for clinical assistance.

**Estacionando: A Smart Parking Management Solution***B.Sc. Final Project**Embedded Systems, IoT, Android Development, Wireless Communication*

Designed and implemented a smart parking system integrating vehicle detection sensors and a mobile application for real-time space reservation, reducing unnecessary traffic and improving parking management efficiency.

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**AWARDS****Winner of the 1st prize coursework projects**

Rosario, Argentina

*Argentine Symposium on Embedded Systems (SASE)*

July 2019

Developed the project *"Automatic Classification and Selection of Soft Drink Caps using Computer Vision Techniques"*, focused on detecting and classifying bottle caps in real time through embedded image processing.

The project was recognized with the first prize among university coursework projects nationwide.

## VOLUNTEER EXPERIENCE

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### **Volunteer Fire Department**

*Principal Officer – Training Manager, Prehospital Emergency Area*

Salto Grande, Argentina

Nov 2010 – May 2025

Led and coordinated state-supported training programs for prehospital emergency response, collaborating with multiple rescue and healthcare teams across the region. Supervised a group of instructors and conducted community CPR training initiatives to enhance public readiness. It was a challenging but deeply rewarding role that strengthened my leadership and teamwork skills. I'm grateful for the opportunity to serve my community and help others in their time of need.