

Nico A

DevOps & MLOps Engineer | CI/CD, AWS, Terraform, Kubernetes
ML Deployments & Infrastructure

FI-Helsinki

Summary

I'm a DevOps/MLOps Engineer with experience in full-stack development, ML prototyping, and cloud-native delivery.

My technical stack includes:

- CI/CD (GitHub Actions, Jenkins)
- Docker & Kubernetes
- Terraform, Ansible, AWS (IAM, EC2, EKS, S3, CloudFormation)
- ML tools: MLflow, PyTorch, FastAPI
- Monitoring: Prometheus, Grafana

From 2020 to 2025, Led the ML engineering and full-stack delivery of an AI-based adult development scoring platform. As a result of our work, the product received EU funding (ERDF) for its innovation in AI/ML.

I've also contributed to infrastructure automation and observability at a Fin/American company.

Currently completing a vocational degree in Systems Administration (ASIR), while building public DevOps/MLOps projects to continuously improve and enhance my skills.

Experience

Shifting Horizons

DevOps & ML Engineer

2020 - 2025

Specialist Consultant for 2 parts of the project: June 2020- December 2021/

August 2022-2025

Took the startup from concept to prototype to market in under 6 months.

Certifications

Becoming an AWS Cloud Architect

Machine Learning on Google Cloud Platform

Essential Cloud Infrastructure: Foundation

Getting Started with AWS Machine Learning

Jira Essentials for Agile Teams

Designed and implemented the end-to-end architecture: Vue.js (UI), Node.js (backend), JavaScript/TypeScript, PyTorch (ML), Firebase/GCP (infrastructure), Docker, and GitHub Actions.

Built reproducible training pipelines and model versioning flows using MLflow and PyTorch Lightning.

Automated CI/CD and deployment pipelines, supporting model training, evaluation, and containerized inference APIs.

Created a parallel AI validation system ("cross-reference" architecture) to test production predictions against live semantic scoring benchmarks.

Developed an internal LeadershipGPT system combining LangChain, OpenAI fine-tuned models, and n8n automation for adaptive response generation and semantic reasoning.

Integrated FastAPI and Node.js microservices with LLM-based agents (via LangChain) to orchestrate workflows across product modules and third-party APIs.

Enabled real-time observability of inference metrics with Prometheus and Grafana for model and service monitoring.

Contributed to successful ERDF (EU) funding by delivering a working ML product using advanced AI methods (transformers, semantic scoring, RLHF).

Practiced strict version control of data and models; deployed lightweight DataOps pipelines with CSV- Parquet flows using Pandas + Delta Lake patterns.

RCAFi - Red de Científicos Argentinos en Finlandia

Member

2020 – 2025

Finland

Member of RCAFi - Network of Argentine Scientists in Finland. Group without legal personality of Argentine researchers, technologists and professionals residing in Finland

DevOps Engineer

August 2024 - April 2025

DevOps Engineer — CujoAI (2024-2025, Helsinki) Contributed to infrastructure automation and CI/CD pipeline operations.

- IaC with Terraform & CloudFormation, managed multi-environment AWS stacks.
- CI/CD pipelines with Jenkins & AWS CodeArtifact.
- Monitoring with Prometheus + Grafana.
- Tools: AWS CLI, Bash, Docker, Kubernetes, TypeScript.

CloudWalk, Inc.

Frontend Developer

January 2022 - June 2022

Sao Paulo, San Pablo, Brasil

(Contractor) Developed and maintained frontend systems for B2B fintech products.

- Stack: React, TypeScript, Node.js, Cypress, GCP.
- Contributed to codebase refactor and internal documentation (Confluence + GitHub).

Altfield Tech

RPA & Web3 Developer

November 2018 - June 2020

Sweden

Delivered RPA bots and smart contract systems from design to deployment.

UiPath, Solidity, JavaScript, Node.js, Figma.

- + Built test coverage (unit, integration, simulation) for smart contracts.
- Integrated Web3 logic with modern UIs using React.

Hotel Arts Barcelona

Waiter

November 2017 - November 2018

Spain

Waiting and serving customers at the 5 stars hotel and restaurant Ritz Carlton in Barcelona. Providing an exceptional guest service experience. Taking orders and delivering food. Setting up and packing down the restaurant. Ensuring having knowledge of all food and beverage items on the menus.

Museo Nacional de Bellas Artes

Art guide

November 2016 - November 2017

Argentina

Performed guided tours and special events within the art collections and facilitated educational art workshops. Administrative work, such as monitoring visitor's activities in order to ensure compliance with establishment or tour regulations and safety practices.

Sony Electronics

Store Manager

January 2014 - September 2016

Argentina

Store management and personal sales responsibilities. Responsible for motivating and advising sellers to improve their performance, as well as hiring and training new sales representatives. Achieved brand objectives through effective planning, setting sales goals, analyzing data on past performance, and projecting future performance.

Education

IU Internationale Hochschule

Bachelor in Applied Artificial Intelligence, Inteligencia artificial

Cisco Networking Academy

Junior Cybersecurity Analyst | Ethical Hacker, Cybersecurity

Acámica

Data Scientist, Data Science Specialization (2019 - 2020)

Cyfrin Updraft

Blockchain Developer

University of Washington

Computational Neuroscience Course, Neurociencia (2020 - 2020)