



Nicolás Almirón

Personal Information

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Professional skills

DevOps & MLOps

Software & RPA Development

Developing Machine Learning Models for Production

ML Flow & MLOps Deployment

Certified Cisco Junior Cybersecurity Analyst

Languages

Spanish
Native

English
Native

Swedish B1

Profile

I'm a **software engineer** focused on building scalable ML systems, automating deployment workflows, and mastering DevOps/MLOps end-to-end. My background includes full-stack development, AI & Machine Learning prototyping, and startup product delivery.

Employment History

Software Developer / MLOps Engineer - Shifting Horizons io, Helsinki, Finland.

June 2020 - Present

Led the ML engineering and full-stack delivery of an AI-based adult development scoring platform.

- Took startup from concept to prototype to market in <6 months.
- Designed full architecture (Vue, Node.js, TypeScript, GCP, Firebase, PyTorch, Docker, GitHub Actions).
- Secured EU funding (ERDF) through applied ML product success.
- Transformed AI use cases into production-ready solutions, leveraging LLMs for semantic scoring, adaptive logic, and response generation. Fine-tuning, RAG, RLHF.
- 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.
- 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.

DevOps Engineer (Junior) - Academic Work , Helsinki, Finland.

August 2024 - May 2025

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.
- Implemented observability dashboards with Grafana for CPU, memory, and application latency, enabling real-time scaling decisions.
- Tuned CI/CD pipelines to improve container startup times and deployment reproducibility across staging and production environments.
- Automated ECS (Fargate) deployments of containerized microservices using Terraform, integrating CI pipelines with Jenkins and ECR.
- Built and maintained HPA (Horizontal Pod Autoscaler) in EKS to scale latency-sensitive threat scoring services from 2 to 10 replicas using Prometheus metrics.
- Tools: AWS, Bash, Jenkins, Grafana, Docker, Kubernetes, TypeScript. Cursor, AWS Q.

Employment History

Software Engineer - CloudWalk io, Sao Paulo, remote.

January 2022 - July 2022

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

- Maintained and modernized key UI components in React and TypeScript, with a focus on accessibility and performance.
- Supported the migration of frontend architecture toward modular components and reusable hooks.
- Created CI workflows and documentation standards in GitHub + Confluence, reducing onboarding friction and improving deployment stability.
- Stack: React, TypeScript, Node.js, Cypress, GCP, GitHub Actions, REST APIs, microservices.

RPA & Jr Blockchain Dev - Altfield, Stockholm, Sweden.

November 2018 - June 2020

Delivered intelligent automation and decentralized application (dApp) solutions from architecture to deployment for internal and client projects. Developed and deployed UiPath-based RPA bots for repetitive enterprise workflows, integrating with web apps, APIs, and internal systems.

- Stack: UiPath, Solidity, JavaScript, Node.js, React, Web3.js, Truffle, Ganache, Figma, Postman, GitHub.
- Designed and implemented smart contracts in Solidity, deployed to Ethereum testnets, with custom business logic for tokenized workflows and audit trails.
- Integrated smart contracts with modern Web3 frontends (React + Web3.js), enabling real-time interaction with blockchain layers.

Education

BSc Applied Artificial Intelligence - IU Internationale Hochschule, Berlin, Germany.

2022 - 2026

BSc Applied Artificial Intelligence

Full Stack program - Integrify io, Helsinki, Finland.

Frontend modules: (6 weeks). JavaScript/TypeScript, React/Redux, AngularNgRx, Angular Material, TailwindCSS, Unit testing. Backend modules: (18 weeks). Java, Spring boot, Hibernate, C#, ASP.Net Core, Entity Framework Core, PostgreSQL, REST API.

Certified Cisco Junior Cybersecurity Analyst

Certified Cisco Junior Cybersecurity Analyst. Cisco Ethical Hacker.

Online/Other ongoing Education

Baccalaureate in Biological Sciences, C.P.E.M N°46, High School, Neuquén, Argentina.

Machine Learning Engineer, Career Track, DataCamp, Online.

Computational Neuroscience Course, online. University of Washington.

Data Science Bootcamp program with Python, Scala, Hadoop & Spark, GitHub, and SQL as well as packages like XgBoost, Caret, dplyr, ggplot2, Pandas, scikit-learn.

Transformational Leadership, GLP Certification, online, Amara Collaboration OY.

Essential Cloud Infrastructure: Foundation, Core Infrastructure, Core Services courses, GCP.

Machine Learning on Azure.