

NORMAN FUNES

SENIOR SOFTWARE ENGINEER & TECH LEAD

AI-assisted engineering · Applied AI · Geospatial ML · Technical leadership

Buenos Aires, Argentina · normanfunes@outlook.com · normanfunes.com.ar · linkedin.com/in/norman-funes ·

github.com/Noorman999

Building data-intensive and AI-enabled products across geospatial intelligence, real-time platforms and complex operational systems. Specialized in backend architecture, distributed systems, frontend platforms and end-to-end technical ownership.

01 EXPERIENCE

Senior Software Engineer

Mar 2023 – 2025

Geoactio

Owned backend BFF and frontend architecture across public-transport operations platforms — TypeScript services, control-center UIs, design system and GCP release pipelines.

- Extended TypeScript/Express BFFs and adjacent Node services for assignments, BigQuery-backed analytics and planning/alerts, with GitLab CI to Cloud Run and Firebase multi-env releases
- Led ActioSAE 4.0 architecture with a dedicated BFF boundary — App Router UI, operational maps, synoptic workflows and Keycloak/OIDC auth without browser-to-backend coupling
- Delivered production features for ActioSAE operations control centers in Next.js/TypeScript — live operational views, alerts, configuration and reporting on realtime feeds
- Owned and evolved the company-wide React design system (Storybook, semantic-release) with shared map and data-table primitives adopted across multiple Geoactio products
- Contributed to multi-tenant GCP packaging (API Gateway, Firestore indexes) supporting repeatable SAE environments for transit operators

Node.js Express.js TypeScript React.js Next.js Firebase BigQuery GCP Turborepo CI/CD Docker Semantic Release

Software Engineer

May 2022 – Mar 2023

Mercado Libre

Built platforms that turned high-volume behavioral tracking data into reliable inputs for internal product and data teams.

- Owned a Java validation interface that protected integrity of user-interaction tracks consumed by downstream platforms
- Designed and shipped APIs to collect interaction data and persist it in S3, integrating with the internal Data Catalog
- Contributed to distributed microservice design across Python, Java and Node.js on AWS and GCP
- Supported deployment and operational readiness of tracking services in multi-cloud environments

Python Flask Java Spring Boot Node.js AWS GCP

Fullstack Developer / Tech Lead

Jul 2020 – Feb 2022

Red Link S.A.

Led a new software division inside Information Security, owning architecture and delivery of internal automation platforms.

- Led architecture and delivery of internal automation platforms using Python, Node.js and React, focusing on maintainability and operational security
- Designed microservice infrastructure and shared libraries that reduced duplicated tooling across security workflows
- Mentored engineers, coordinated sprints and set delivery standards for a growing development team
- Partnered on security risk assessments to keep delivery aligned with compliance requirements

Python Flask Django Node.js React.js Docker Redis PostgreSQL

Security Analyst

Jul 2018 – Feb 2020

Red Link S.A.

Operated identity, infrastructure and automation tooling that improved security workflows and DevSecOps practices.

- Built automation in Python, Bash and PowerShell that reduced repetitive operational work for the security team
- Deployed and operated identity-management and infrastructure services as a systems administrator
- Supported DevSecOps practices with tooling, configuration and technical guidance across teams

Python Bash PowerShell Linux Jenkins NGINX

02 PROJECTS

CASSIE UNIVERSITY THESIS [cassie.ar](#)

Geospatial AI thesis prototype: satellite imagery, LightGBM/LSTM models, PostGIS, FastAPI and Next.js maps for environmental risk analysis. Metrics are academic, not production. Presented at ICDD 2026.

Python

FastAPI

Next.js

TypeScript

PyTorch

Supabase

PostgreSQL

Vercel

Primero los Tantos [plt.ar](#)

Real-time multiplayer card-game platform for Argentine Truco with authoritative WebSocket rooms on Cloudflare Durable Objects, synchronized state and reconnection.

Next.js

TypeScript

React.js

Cloudflare

Vercel

03 SKILLS

Core engineering	Python · TypeScript · Java · SQL
Backend & data	FastAPI · Spring Boot · Node.js · Express.js · PostgreSQL · Redis · Databricks
Frontend architecture	React.js · Next.js · JavaScript · Vite · Turborepo
Cloud & platform	AWS · Azure · GCP · Firebase · BigQuery · Vercel · Docker · CI/CD
AI engineering workflow	Cursor · Claude Code · ChatGPT / Codex · v0
Applied AI	Vercel AI SDK · OpenAI API · Anthropic API
Machine learning	PyTorch · LightGBM · MLflow · Databricks

EDUCATION

Software Engineering
[Universidad del Salvador](#)
2017 – 2025

Information Systems Analyst
[Universidad del Salvador](#)
2017 – 2023

LANGUAGES

English

Spanish

Japanese

C1 Advanced

Native

N5 Beginner