

RENATO AGUSTÍN LAGOS ALBORNOZ

Full Stack Engineer (TypeScript/React, Python/Django)

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PROFILE

Full Stack Engineer (strong backend focus) with 3+ years building data-intensive web applications, integrations and automation systems using TypeScript/React on the frontend and Python/Django/FastAPI on the backend. Used to working in modern, cloud-based environments (AWS, Docker) and owning features end-to-end: from API design and data modelling to UI implementation, testing and deployment. I enjoy designing clean, pragmatic architectures for integrations where data must flow reliably between services and external platforms. Creator of FerRealSpanish, a Spanish-learning platform with a production-ready backend (Supabase + REST APIs) and a marketing/ops stack based on Resend, n8n and Vercel. I design workflows where frontend components talk to typed APIs, which in turn orchestrate databases, background jobs and email automations. Comfortable collaborating closely with Product and Design, discussing trade-offs, and driving technical decisions that improve reliability, performance and developer experience. Currently deepening my knowledge of Kubernetes, AWS CDK, and event-driven architectures to work even more effectively in cloud-native integration teams.

PROFESSIONAL EXPERIENCE

Software Engineer (Full Stack)

08/2024 – 04/2025

ITAU Bank

Santiago, Chile

- Built modern monitoring interfaces using React, Next.js, TypeScript and TailwindCSS for internal operations teams.
- Developed backend microservices using Python (Django REST Framework, FastAPI) and Node.js, exposing REST APIs for other teams and tools.
- Designed and implemented integration endpoints to connect internal systems and automation platforms, focusing on performance and reliability.
- Created real-time dashboards powered by internal REST APIs and authentication with JWT, improving visibility of process KPIs.
- Implemented automated testing pipelines (Jest, Playwright) and contributed to code review and coding standards within the team.
- Supported a migration to AWS using API Gateway, Docker and load balancers, documenting architectural decisions and integration flows.
- Documented all APIs using Swagger/OpenAPI to enable consistent integration with other teams.

Full Stack Developer

03/2023 – 07/2024

KPAZ

Santiago, Chile

- Developed internal automation dashboards using React, Next.js, TypeScript and TailwindCSS, surfacing data from multiple services.
- Implemented backend logic using Python (FastAPI) and Node.js/Express to provide integration endpoints, webhooks and REST services.
- Automated internal workflows using Python, PowerShell and C# integrated with Blue Prism, reducing manual work for operations teams.
- Helped evolve legacy codebases towards more modular, testable architectures with clear separation between domain, application and infrastructure layers.
- Built unit and integration tests to ensure stability and reduce regressions during frequent releases.

RPA Developer

02/2022 – 03/2023

EY Chile

Santiago, Chile

- Developed RPA bots with Blue Prism, SQL Server, C#, VB and Office tools for high-volume back-office processes.
- Built small internal web tools with HTML/CSS/JavaScript to allow business users to interact with automation services.
- Created PowerShell and VB scripts for communication, backups and scheduled jobs integrated with RPA workflows.
- Supported SQL integrations and query optimization to handle large data volumes efficiently.

RPA & Software Developer

2021 – 2022

OVO Consulting

Santiago, Chile

- Built workflow automations using Blue Prism, VBA and PowerShell for enterprise clients in different industries.
- Contributed to end-to-end automation pipelines, from requirements analysis to deployment and monitoring in production.
- Developed Python scripts and small backend services to orchestrate and monitor automation runs, exposing status APIs for other systems.
- Worked with large data sets using the PyData stack (pandas, NumPy, etc.) to clean, transform and aggregate client data prior to RPA ingestion, improving reliability of downstream processes.

Automation Engineer & Backend Developer

2025 – Present

Freelance Automation Developer

Remote

- Built SAP procurement automations using Power Automate Desktop + Cloud, integrating with existing back-office tools.
- Created stable Excel/VBA data workflows and automated reporting systems for finance and operations teams.
- Led go-live, documentation and stabilization for stakeholder teams, with a focus on maintainability and observability.
- Designed small backend utilities in Python to integrate APIs, files and RPA tools, helping to centralize data flows.

PROJECTS

FerRealSpanish – Language Learning Platform (Supabase + Vercel + Resend)

2025 – Present

Full Spanish-learning platform designed with a backend-first architecture. Landing page and application built with Astro, React, TypeScript and TailwindCSS, deployed on Vercel with CI/CD. Lead-capture forms persist interested students into Supabase (PostgreSQL) using row-level security and typed APIs, providing a clean data model for waitlists, cohorts and future courses. Email marketing and launch campaigns implemented with Resend (welcome sequences, nurture flows and course launch emails), triggered from backend logic and n8n workflows. Architecture: frontend (Astro/React) → API routes / edge functions → Supabase (data layer) → n8n automations → Resend for transactional and marketing emails, creating a robust integration layer between product, CRM and marketing.

Content Automation Stack – n8n + AI Agents for Social Media Ops

2025 – Present

Internal automation platform built with n8n and custom AI agents to support content operations. Workflows include automatic thumbnail generation using AI image models, fed by video metadata and script context, and automatic generation of content descriptions tailored to each social network (YouTube, Instagram, TikTok,

Facebook) based on scripts and subtitles. Implemented AI-powered brainstorming flows for new content ideas, where LLM agents propose hooks, titles and series concepts given a target audience and goals. Developed pipelines to auto-upload edited videos and assets to social networks via their APIs, centralizing metrics (views, retention, CTR) into an analytics dashboard (Supabase + SQL queries) for later analysis. Integrated AI editing tools in the pipeline (auto-cut, captions, voice enhancement) to reduce manual editing time and make the workflows reusable and scalable.

Portfolio Website & Integration Playground

2025

Personal portfolio built using Astro, TypeScript, React and TailwindCSS with a clean, modern UI. Includes small integration demos consuming external APIs (e.g. GitHub, social media) to showcase full-stack skills. Deployed on Vercel with preview deployments on pull requests and basic monitoring.

TECHNICAL SKILLS

Languages:	TypeScript, JavaScript, Python, C#, VB, PowerShell, VBA
Frontend:	React, Next.js, Astro, TailwindCSS, component-based design, responsive UI
Backend:	Python (Django, Django REST Framework, FastAPI), Node.js/Express, REST API design, JWT, Swagger/OpenAPI
Automation & RPA:	Blue Prism, Power Automate, scripting (Python, PowerShell, VBA) for workflow automation
Workflow Orchestration:	n8n (LLM pipelines, API orchestration, automation systems)
Data & Analytics:	PyData stack (pandas, NumPy), ETL-style pipelines, data validation and reporting with SQL
AI Tools:	Cursor, Windsurf, Antigravity, Claude Code, Gemini CLI (used to speed up development and prototyping)
Databases:	PostgreSQL, Supabase, SQL Server, MySQL
Cloud & DevOps:	AWS (API Gateway, EC2, Load Balancer), Docker, GitHub Actions, Linux, CI/CD practices
Currently Learning / Next Tools:	Kubernetes fundamentals, AWS CDK, MongoDB/DynamoDB, Jenkins, Cypress, Elastic (observability stack)

LANGUAGES

Spanish — Native • English — B2 • German — A1 (currently learning)