

Rodrigo Alvarez

Software Engineer

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About Me

Full-Stack Software Engineer working with TypeScript, Go, and Python. I deliver distributed and serverless systems end-to-end, from product code to infrastructure as code (Terraform, AWS CDK), with a focus on scalability and operational simplicity.

Experience

Software Engineer

January 2025 – Present

Foris

- Maintained multi-tenant Django services and the central identity system (users, clients, and access) across the product suite.
- Implemented asynchronous ETL pipelines for high-volume load and export, reducing manual operational work for engineering teams.
- Automated deployments with GitHub Actions and Helm, and built integrations with legacy PHP systems to keep platform interoperability.

Skills: Python, Django, PHP, GitHub Actions, Multi-tenant, CI/CD, ETL

Software Engineer

January 2024 – January 2025

Fundación Oftalmológica Los Andes

- Developed a surgery management platform with Next.js and PostgreSQL, replacing legacy software for 100 internal users.
- Designed and provisioned AWS infrastructure (networking, ECS, RDS) for development and production with Terraform and Terragrunt.
- Built the core service in Go and gRPC, and secured access with Authelia + LDAP and CI/CD pipelines.

Skills: TypeScript, React, Next.js, Go, PostgreSQL, AWS (ECS, RDS, ELB), Terraform, Terragrunt, gRPC, Authelia, LDAP, CI/CD, n8n

Software Engineer

November 2021 – January 2024

PortalTerreno

- Designed a serverless ETL pipeline on AWS Lambda for CSV/JSON/XML ingestion and cut processing time from 12 hours to minutes.
- Led the migration from a PHP monolith to a scalable architecture with TypeScript, Next.js, React, Redux, and PostgreSQL.
- Implemented CI/CD (Jest, typing, linters) and migrated IaC from Serverless Framework to AWS CDK.
- Built asynchronous microservices on AWS ECS/SQS for image optimization and transactional email delivery.

Skills: TypeScript, React, Next.js, Redux, PostgreSQL, AWS (Lambda, SQS, ECS, SES, Cognito, S3, RDS, CDK, DynamoDB), Serverless Framework, Docker, Jest, CI/CD, Lerna, Python, PHP

Academic Experience

Lecturer of Data Structures and Algorithms

February 2024 – February 2025

Diego Portales University

- Taught undergraduate Data Structures and Algorithms.
- Covered complexity analysis and core structures: lists, queues, stacks, trees, and graphs.

Projects

Product Scanner & Price Aggregator

July 2025 – Present

Software Engineer (Personal Project)

- Designed the distributed architecture for product scraping and matching in a 2-engineer team (Cloudflare Workers).
- Built a semantic matching engine with Gemini embeddings and Qdrant to map offers into a single catalog.
- Orchestrated asynchronous pipelines with Queues, Durable Objects, KV, R2, and Turso.

Skills: Cloudflare (Workers, Queues, Durable Objects, KV, R2), Qdrant (Vector DB), Turso, Drizzle ORM, Gemini (Embeddings), DDD Architecture, Astro, React, Typescript

Homearcy (MVP)

March 2024 – September 2024

Tech Lead & Backend Engineer

- Led technical development of the MVP, defined the backend architecture, and coordinated a 4-developer frontend team (React Native/Expo).
- Implemented TypeBox + OpenAPI to generate a typed SDK and speed up frontend-backend integration.
- Built core business logic with Fastify and Prisma, including reminders and LLM-based medication recognition from photos.

Skills: Fastify, Prisma, TypeBox, OpenAPI, React Native, Expo, LLM Integration (OpenAI)

Schedule generator for university students

March 2023 – January 2024

Software Engineer (Personal project)

- Built a web app to generate university schedules without class conflicts.
- Implemented DFS and Backtracking to evaluate combinations in milliseconds; deployed on Vercel and used by 1000+ students.

Skills: DFS, Backtracking, Typescript, Nextjs, Zustand, Turborepo

[View code](#)

Education

B.S. in Computer Science and Telecommunications Engineering

2018 – 2023

Diego Portales University