

IGNACIO ARZAUT

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PROFESSIONAL SUMMARY

I'm a backend-focused software engineer who enjoys solving complex data and system architecture challenges. My core work spans building API services with Python (FastAPI) and TypeScript (NestJS), designing database schemas in PostgreSQL and Snowflake, and implementing data pipelines for processing at scale.

While my strength is in backend development, I've gained substantial experience across the full stack. I regularly handle DevOps responsibilities including cloud server setup, application containerization with Docker and Docker Compose, CI/CD automation via GitHub Actions, configuring Nginx as a reverse proxy, and writing bash scripts for operational tasks.

On the frontend side, I work with React, Next.js and TypeScript ecosystems, using tools like Tailwind CSS, React Query, Zustand, and Zod for type validation.

My experience includes both product development and consulting environments, where I've worked directly embedded with client teams and led backend development. I value clean code, pragmatic solutions, and straightforward communication in technical teams.

PROFESSIONAL EXPERIENCE

SR Software Engineer @ Montauk Labs

Jan 2024 - Nov 2024

Contracted through IntermediaIT, working directly as an embedded team member with Montauk Labs. I worked on backend systems with a focus on API and data pipeline development.

My work involved:

- Building and maintaining API services with Python FastAPI, including feature design, implementation, and testing
- Setting up Redis caching to improve API performance and reduce database load
- Designing part of the database models and relationships in Snowflake, writing and optimizing complex SQL queries as needed
- Developing part of the ETL pipelines in Python to handle data ingestion, transformation, and loading from various sources
- Working with Dagster for data workflow orchestration and using Pandas/Polars for data manipulation
- Implementing data validation, cleansing, and enrichment processes to ensure data quality and generate useful metrics
- Integrating LLM services to add AI capabilities to our applications
- Working with AWS services including EC2, ElasticBeanstalk, S3, Lambda, CloudWatch, and ECR
- Automating workflows with GitHub Actions and writing Bash scripts for various operational tasks

Skills: Python · FastAPI · Snowflake · Extract, Transform, Load (ETL) · Amazon Web Services (AWS) · Bash

Software Engineer @ Intermedia IT

Mar 2023 - Nov 2024

At IntermediaIT, I worked as a backend engineer, eventually taking on lead responsibilities for client projects.

My work involved:

- Building APIs with (TypeScript/NestJS) and (Python/FastAPI), handling everything from initial design to implementation and testing
- Working with PostgreSQL and Snowflake databases, designing schemas and writing SQL queries when needed beyond what Prisma ORM provided
- Setting up CI/CD pipelines to automate testing and deployment processes (Docker, GitHub Actions and Cloud Servers)

- Containerizing applications with Docker and managing deployments
- Implementing caching strategies with Redis and handling async job processing with BullMQ

Also not strictly coding-related such as:

- Working directly with clients
- Interviewing potential hires and providing technical assessments
- Analyzing project requirements and providing time estimations

Skills: PostgreSQL · TypeScript · Node.js · Python · Docker · NestJS · FastAPI

Backend Engineer @ Simple Comercio

Dec 2021 - Mar 2023

Worked as the lead back-end engineer for an e-commerce platform, where my main responsibilities were designing and building a micro-service architecture which provided APIs (REST and RPC) for clients to consume, and integrated with several third party services.

My work involved:

- Designed, built and maintained back-end micro-service architecture
- Designed and implemented databases for each micro-service (MongoDB and PostgreSQL)
- Designed and implemented multiple REST and RPC APIs
- Integrated with many different third party services
- Dockerized backend infrastructure with Docker-Compose and automated deploy with Bash scripts
- Built custom npm module for a company requirements
- Implemented RPC direct-reply pattern to communicate microservices between each other
- Implemented notifications service (push, email, sms, whatsapp, discord)
- Implemented monitoring service (Grafana Loki)
- Backend infrastructure deployment in cloud platforms such as DigitalOcean
- Set up web server and reverse proxy with Nginx
- Wrote integrations tests

Skills: PostgreSQL · Node.js · Express.js · Grafana Loki · Microservice Architecture · Inglés · Docker · MongoDB · JavaScript

Full Stack Developer @ iTec Labs

Mar 2021 - Dec 2021

iTec Labs is a software factory owned by the same institute where I studied. They provided the opportunity to a selected number of students to have our first job experiences. I worked in several projects that involved learning and implementing those learned skills in a dynamic and challenging environment.

Work involved:

- Implemented the fundamentals of React
 - Implemented the fundamentals of API REST with Express.js
 - Designed and implemented relational and no relationals databases
 - Implemented state management with Redux
 - Implemented token based authentication and authorization with JWT
 - Integrated with different third party services
 - Worked as I learned in a fast paced environment
 - Deployed frontend and back applications
 - Set up reverse proxy and web server with Nginx
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EDUCATION

Instituto Tecnológico de Rio Cuarto
Bachelor in Software Development

Universidad Nacional de Rio Cuarto
Bachelor of Science in Computer Sciences

LANGUAGES

Spanish (Native)
English (C2 Proficient) 82/100 EFSET Standardized Test