

Ariel José Pires Junior

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AI CV (built with AIProfy): www.arielpires.com.br

Product (solo-built): <https://aiprofy.app>

Summary

Tech Lead/Software Architect with 20+ years building and operating production systems across backend, frontend, data, and cloud infrastructure. Experienced leading small to mid-size teams, setting technical direction, and delivering scalable services with a strong focus on correctness, reliability, performance, security, and maintainability. Designed and delivered validation frameworks, ETL/data pipelines, and scalable backend services with a strong focus on correctness, reliability, performance, and maintainability.

Built and launched AIProfy (solo): <https://aiprofy.app>, a multi-tenant AI-assisted CV/portfolio platform. Personal site built on it: www.arielpires.com.br.

Core Skills

- **AI / Agentic Systems:** LLM Integration, OpenAI Agents SDK, agentic architectures, multi-agent workflows, autonomous workflow orchestration, MCP (Model Context Protocol), CrewAI, LangGraph, AutoGen;
- **Backend:** Python (Django, FastAPI, Flask, Pandas), Java (8–25), Spring / Spring Boot, REST APIs, GraphQL;
- **Frontend:** Next.js, React, TypeScript, JavaScript, Angular 2;
- **Data / Storage:** PostgreSQL, DuckDB, MySQL, MS SQL, MongoDB, Parquet, Apache Arrow;
- **Cloud / DevOps:** IaC, Kubernetes (EKS), Docker, Terraform, Helm, FluxCD, AWS (EC2, S3, IAM, Lambda), GCP (Cloud Run, Pub/Sub, Cloud SQL), Azure;
- **CI/CD & Quality:** GitHub Actions, Jenkins, SonarQube, Dagger, JUnit, TestNG, Pytest, Mockito;
- **Engineering Practices:** System design, clean code, scalability, observability, incident response/on-call, migrations, performance tuning;
- **Version Control:** Git, SVN;

Experience

Founder / Solo Builder

AIProfy - <https://aiprofy.app>

Dec 2025 – Present

- Built and launched a production-ready multi-tenant SaaS platform end-to-end (product, architecture, backend, frontend, deployment, SEO);
- Delivered an async backend with FastAPI (Async Python REST API), SQLAlchemy 2.0 (Async ORM), PostgreSQL (Async w/ asyncpg), Alembic (Database Migrations), and Pydantic (Data Validation & Serialization);
- Integrated LLM capabilities using OpenAI Agents SDK / LLM Integration with multi-provider support (OpenAI/Groq/DeepSeek/Gemini);
- Implemented multi-tenant architecture, Clean Architecture (Repository Pattern), JWT authentication (bcrypt/OAuth), rate limiting, and strict typing practices;
- Delivered the frontend using Next.js 16 (App Router / Server Components), React 19, TypeScript (Strict Mode), Tailwind CSS, and next-intl (i18n/Internationalization);
- Deployed using Railway / PaaS Deployment (CI/CD) and production email delivery via SendGrid;

Keywords: FastAPI (Async Python REST API), OpenAI Agents SDK / LLM Integration, SQLAlchemy 2.0 (Async ORM), PostgreSQL (Async w/ asyncpg), Alembic, Pydantic, Next.js 16, React 19, TypeScript (Strict Mode), Tailwind CSS, next-intl (i18n), Multi-Tenant Architecture (SaaS), JWT Authentication, Clean Architecture (Repository Pattern) • Railway (CI/CD).

Senior Software Engineer

At BairesDEV/HCG Fund Management

Nov 2021 – Nov 2025

- Designed and maintained Java 21/Gradle validation framework, with advanced rules, roll-forward checks, JSON/S3 outputs, and >90% coverage in SonarQube.
- Developed Python APIs with Django, utilities for automation, data checks, and pipeline support.
- Built backend services and APIs with Python (Django) and developed data-intensive workflows using Pandas for validation, reporting, and automation. Developed Python utilities for automation, data checks, and pipeline support.
- Optimized PostgreSQL schemas and queries for large-scale financial data (deduplication, ownership logic, schema migrations).
- Processed large Parquet datasets with Apache Arrow, CDC replication, and indexing/range optimizations.
- Prototyped transformations with Python (Pandas, DuckDB) for rapid iteration before production rollout.

- Operated in Kubernetes (EKS) with Helm/FluxCD, leading service migrations and troubleshooting infra issues (replication lag, DNS failures).
- Built and maintained CI pipelines with Dagger, Gradle, and SonarQube.
- Leveraged AWS services (EC2, S3, IAM, Lambda) for data storage, access control, and orchestration, and GCP services (Cloud Run, Pub/Sub, Cloud SQL) for serverless execution and messaging/data persistence.
- Drove validation, infrastructure, and data quality initiatives, maintaining documentation and providing on-call production support.
- Collaborated with multidisciplinary teams to improve developer productivity, system reliability, and data integrity.

Senior Software Engineer

At Involves

Sep 2021 – Dec 2021

- Backend: Java 8+/Maven, Spring Boot, Node.js, MongoDB, MySQL, API development & integrations
- Frontend: React, Angular 2
- Cloud (AWS): Lambda, SQS, S3, EC2

Software Architect/Tech Lead

At Lume Tecnologia

Feb 2017 – Sep 2021

- Defined architectural approaches and made key design decisions, from software design to hands-on implementation.
- Oversaw project progress, enforced coding standards, and ensured solutions met requirements for quality, security, and scalability.
- Led development across a mixed stack: Java, Angular 2, Node.js, Electron, SQLite, DB2, MySQL
- Architected and delivered new software from scratch, selecting programming language, database model, and technical stack. Designed to operate both online and offline.
- Modernized a legacy system with modern technologies, ensuring data consistency and seamless migration from the old platform.

For previous roles and projects, including systems modernization, internationalization, and legacy integrations, see full experience on my LinkedIn profile: www.linkedin.com/in/ariel-jose-pires-jr or even better, ask on my AIProfy CV (interactive): www.arielpires.com.br

Recent Licenses & Certifications

AI Engineer Agentic Track: The Complete Agent & MCP Course — Udemy | Issued Jan 2026

Credential URL: <https://www.udemy.com/certificate/UC-b47688e6-f144-4e8a-9a33-55653d846470/>

MongoDB: The Complete Developer's Guide — Udemy | Issued Jan 2025

Credential URL: <https://www.udemy.com/certificate/UC-e1228093-0484-42d4-9e73-69c4b3f76eea/>

Education

Postgraduate Degree 2010-2012, Specialization in Web Technologies

University: Pontifícia Universidade Católica do Paraná

Bachelor's Degree 2004-2007, systems analysis (Computer Science)

University: Universidade Estadual do Centro-Oeste

Master's (Unfinished), Data Mining & Artificial Intelligence (2012–2013)

Completed coursework; thesis not finished.

University: Federal University of Technology - Parana