Alcides Oliveira

Full-Stack Software Engineer

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Professional Summary

Full-stack software engineer building REST APIs, relational databases, scheduled data services, cloud infrastructure, and web interfaces with TypeScript, Node.js, Java, Spring Boot, PostgreSQL, and AWS. Experienced in delivering production services end to end, from the database schema and APIs to deployment with Terraform and the front-end interfaces that consume them.

Technical Skills

Languages: TypeScript, Java, SQL, Python, JavaScript

Back-End: Node.js, Express, REST APIs, Spring Boot, FastAPI

Databases: PostgreSQL, relational modeling, schema migrations

Infrastructure & Tools: AWS (EC2, S3, IAM), Terraform, Docker, Git, CI/CD

Front-End: React, Next.js, HTML, CSS, Tailwind CSS

Professional Experience

ÍGNEA - Geologia e Meio Ambiente 2025 - 2026
Software Engineer

- Delivered features end to end for the company's mining and environmental compliance products, from the PostgreSQL schema and Node.js APIs to the React and TypeScript interfaces on top.
- Kept the data services the products depend on running in production, debugging failures against third-party government sources and handling scheduled synchronization, retries, and downstream notifications.
- Defined AWS infrastructure with Terraform, including EC2, IAM permissions, and S3 lifecycle rules, to make service provisioning repeatable.

Labvis - Laboratory of Visuality and Visualization, UFRJ 2024 - 2026
UX Researcher

- Conducted usability studies and heuristic evaluations of data-visualization interfaces, identifying interaction issues and translating findings into interface requirements.
- Created interactive prototypes in Figma to test interaction concepts with users before development handoff.

Miolo Birô 2023 - 2024
Product Designer

- Designed responsive web interfaces for 5+ client projects, coordinating Figma deliverables with engineering teams.
- Created shared component libraries and design tokens to standardize interface elements across client projects.

Afferolab 2020 - 2022
Product Designer

- Designed enterprise e-learning interfaces used by 50,000+ employees at major Brazilian companies.
- Defined course navigation and progress-tracking interfaces for learners to follow their corporate training.

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Selected Projects

ANM Data API Professional work • ÍGNEA

TypeScript, Node.js, Express, AWS S3, Terraform, node-cron

- Replaced a legacy Python ETL with a TypeScript and Express service that synchronizes 15 public datasets from Brazil's National Mining Agency into AWS S3 in five scheduled waves, giving each dataset an isolated chain for ZIP extraction, shapefile conversion, CSV parsing, and ODS metadata so one failed download cannot block the rest.
- Served the data through REST endpoints with CSV-to-JSON conversion, pagination, and one-hour caching; notified 14 dependent database services after each sync with retries, and protected the API with Helmet, rate limiting, and API keys.

Calendário Mineral Professional work • ÍGNEA

React, TypeScript, Vite, Node.js, Express, PostgreSQL

- Built the browsing and detail interfaces in React and TypeScript for a calendar of mining regulatory deadlines and sector events, with shareable links and one-click export to Google Calendar.
- Wrote the Express API and the PostgreSQL schema behind events and subscriptions, and implemented scheduled email digests with validation, delivery retries, and a guard against sending the same digest twice.

Crivo github.com/cidoliveira/crivo

Python, FastAPI, SQLAlchemy, Alembic, PostgreSQL, TypeScript, Next.js, React, TanStack Query

- Built a FastAPI backend with async SQLAlchemy, Alembic migrations, and modules split by domain, paired with a Next.js and React dashboard that reads server state through TanStack Query.
- Streamed batch email-classification progress to the interface with Server-Sent Events, and kept the feature working during model-API timeouts through typed exception handling and template replies.

ÍGNEA Hub Professional work • ÍGNEA

Next.js, React, TypeScript, Tailwind CSS

- Built the corporate portal for the company's six mining software products in Next.js and TypeScript, with a single page template covering each product's summary, features, status, and application link.
- Modeled the product catalog in typed TypeScript objects and implemented the collapsible product navigation and language switch, so adding a product takes content rather than a new layout.

Education

Pontifical Catholic University of Minas Gerais (PUC-Minas) 2023 - 2026
Undergraduate Technology Degree in Systems Analysis and Development

Federal University of Rio de Janeiro (UFRJ) 2024 - 2026
Master's Degree in Design and Visual Communication

Pontifical Catholic University of Rio de Janeiro (PUC-Rio) 2018 - 2022
Bachelor's Degree in Industrial Design, specialization in Digital Media

Completed Courses

Java10x: Java and Spring Boot

University of Helsinki: Java Programming I & II, MOOC.fi (2026)

Codecademy: Angular, SQL, PostgreSQL, MongoDB

Origamid: React, TypeScript, JavaScript ES6+, Redux with React

Harvard: CS50: Introduction to Computer Science

Languages

Portuguese: Native • English: C1 Advanced (TOEFL)