

Levi Maia Braga

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EDUCATION

Centro Universitario Padre Anchieta

Jundiai, SP, Brazil

Bachelor of Science in Computer Science | GPA: 9.5/10.0

Aug. 2024 – Dec. 2028

- **Relevant coursework:** Data Structures, Object-Oriented Programming, Databases, NoSQL Databases, Backend Programming and DevOps, Operating Systems and Embedded Systems, Converged Networks and Cloud Computing, Systems Security, Cybersecurity, Artificial Intelligence, Computer Graphics and Image Processing, Android and iOS Mobile Development, Differential and Integral Calculus I–II

PUCRS

Porto Alegre, RS, Brazil

Associate Degree in Systems Analysis and Development

Apr. 2024 – Dec. 2026

PROJECTS

SerpVive | *TypeScript, PostgreSQL, distributed APIs*

Mar. – Apr. 2026

- Built and deployed a production web application that ingests Google Search Console data through cron-scheduled pipelines and flags pages losing organic traffic, running unattended
- Designed a deterministic statistical scoring engine — decay over a 16-month window, 7/28-day velocity, seasonality check and a noise filter — and kept LLMs out of it, reserving model calls for the one step needing interpretation
- Engineered a four-provider failover chain across three external APIs with per-attempt timeouts, permanent-error classification and automatic degradation; both failover levels fired in production
- Built a fault-tolerant response pipeline: schema validation, a four-step repair ladder recovering malformed and truncated payloads, an error-informed retry, and sanitization of untrusted external input
- Modeled a 13-table PostgreSQL schema with row-level security on every table and 29 versioned migrations; ingested and queried 42,784 rows of search performance data
- Instrumented per-call latency and cost accounting feeding a global resource cap, a single-point kill switch, and an inactivity policy bounding unbounded data growth
- Specified the architecture and full SQL schema before the first line of application code, and kept the system matching its day-one design across 300+ commits

investigate.sh and backupgz.sh — *CLI tools | Bash, Linux, Git*

2026

- Wrote two dependency-free CLI tools from scratch: a directory auditor reporting file-extension distribution, and a backup routine verifying archive integrity at creation time rather than at restore time
- Organized both into named functions with argument validation and explicit failure paths, handling empty and permission-denied directories

TECHNICAL SKILLS

Languages: Python, TypeScript, SQL (PostgreSQL), Bash

Algorithms and Data Structures: implemented from scratch and applied in coursework and in production scoring code; ongoing algorithmic practice

Systems and Infrastructure: Unix/Linux, shell scripting, REST APIs, OAuth 2.0, cron-scheduled pipelines, distributed multi-provider failover, relational schema design, versioned migrations, row-level security

Software Engineering: Git version control, modular code organization, descriptive naming, static analysis in the deploy path, schema-validated interfaces

Tools: Git, GitHub, Linux, PostgreSQL, Next.js, React, Zod, Vercel, ESLint, SSH, nmap, OpenSSL

AWARDS

Gold Medal, Brazilian Olympiad of Astronomy and Astronautics (OBA) — 2021 and 2023

Honorable Mention, Brazilian National Science Olympiad (ONC) — 2022

Honorable Distinction, Kangaroo Mathematics Competition Brazil — 2022

LANGUAGES

English: Advanced. Near-native comprehension from living in the United States as a child; fluent technical reading and writing

Portuguese: Native