

Rafael Atala Pulzi

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OBJECTIVE

To work as a Junior Developer, Backend Developer, or Junior Data Analyst, applying knowledge in web development, automation, infrastructure, technical support, artificial intelligence, and data analysis. I aim to contribute to practical, scalable, and well-structured solutions while improving my skills in software engineering, systems architecture, and digital product development.

EDUCATION

- **B.Sc. Computer Science – UNIP – Completed** - February 2022 – June 2026
- **Colégio Beka – High School Diploma** -February 2018 – December 2020
- **Colégio Jequitibá – Elementary Education** - February 2008 – February 2018

PROFESSIONAL EXPERIENCE

Sonda ProcWork — User Support Technician L1/L2 - March 2023 – Present

- Provided technical support and assistance to users in a corporate environment.
- Diagnosed and resolved incidents related to systems, networks, workstations, access, and internal applications.
- Supported infrastructure demands, equipment configuration, troubleshooting, and ticket creation/follow-up.
- Communicated with users and technical teams to ensure operational continuity and efficient problem resolution.
- Developed practical understanding of IT operations, internal processes, documentation, and support in large-scale environments.

Freelancer - December 2023 – September 2024

- Developed scripts and small solutions for task automation.
- Created Python tools for data collection, processing, and organization.
- Supported web projects, technical adjustments, environment setup, and problem resolution.
- Used Git, VS Code, Python, HTML, CSS, JavaScript, and automation libraries.

PROJECTS

Intelligent Urban Cleaning Prioritization System

Academic/capstone project focused on optimizing urban solid waste management using artificial intelligence, computer vision, and routing.

- Developed a solution based on **YOLO, Python, OpenCV, PyTorch, Leaflet.js, and IoT sensors.**
- Implemented an image-based waste detection pipeline.
- Used georeferenced data to prioritize collection routes.
- Integrated routing modules, data persistence, and map visualization.
- Applied concepts of software engineering, databases, AI, and sustainability.

Obsidian Vault Health Auditor

Plugin/project focused on analyzing the quality of an Obsidian vault.

- Developed with **TypeScript, Node.js, and the Obsidian API.**
- Analyzed orphan notes, broken links, outdated notes, and organization problems.
- Created a dashboard to assist in maintaining personal knowledge bases.
- Applied concepts of productivity, PKM, and automation.

Proxmox Server

Infrastructure project for virtualization and local testing.

- Implemented a **Proxmox** environment for a homelab.
- Created and managed virtual machines for testing.
- Configured virtual networks, Linux environments, and local services.
- Used for studying infrastructure, servers, and isolated environments.

Web Scraping Tools

Set of tools for collecting, organizing, and exporting web data.

- Developed Python scrapers using **Requests, BeautifulSoup, Pandas, and deduplication strategies.**
- Exported structured data to CSV/JSON.
- Organized the project in a modular way with classes, aggregators, and exporters.
- Applied error handling, quality filters, and clean code practices.

Technical Skills and Courses

- **Programming Languages:** Python, JavaScript, TypeScript, HTML, CSS, SQL
- **Backend and Web:** Flask, Node.js, REST APIs, MySQL, routes, API integration
- **Data and Automation:** Pandas, Jupyter Notebook, Web Scraping, BeautifulSoup, Requests, CSV, JSON
- **Artificial Intelligence:** OpenCV, PyTorch, YOLO, Ollama, natural language processing, computer vision
- **Infrastructure and DevOps:** Git, GitHub, Docker, Linux, Proxmox, virtual environments, VS Code
- **Frontend and Visualization:** Responsive HTML/CSS, JavaScript, Leaflet.js, web interfaces, dashboards
- **Tools:** GitHub CLI, Obsidian, MySQL, Backblaze, ESC/POS thermal printers

LANGUAGES

- **Portuguese:** Native
- **English:** Fluent
- **Spanish:** Technical

CERTIFICATES AND COURSES

- CS50 — Harvard
- Machine Learning and Data Science with Python — Udemy
- Additional courses in development, data, AI, infrastructure, and automation