Micael Targino - Software Engineer

Contact Links

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Summary

Blending Technology and creativity with a bias to action.

With over 5 years of experience as a self-taught programmer and 3 years working professionally, I've been continuously engaged in solving problems with code.

Currently, as a Mid-Level Software Engineer at Metrike, I'm facing challenges in the Backend Development and Data Engineering for AdTech Industry. I'm pursuing a Computer Science Degree at UFPB too, where my quest for knowledge and experience continues to thrive.

Professional Experience

Mid-Level Software Engineer, Metrike

Out 2023 - present

• Developed a robust ETL data pipeline for the AdTech industry, optimizing the extraction, transformation, and loading processes to enhance real-time analytics and decision-making. Achieved a 94% reduction in latency, decreasing the full ETL execution time from 16 hours to just 1 hour, and reduced the runtime of a specific task by 99%, from 4 hours to 20 seconds (Python, Pandas, Apache Airflow, Flask, SQLAlchemy, Docker, PostgreSQL).

• Built an efficient API for Excel report generation, handling large files with ease. Improved memory efficiency by over 75%, effectively resolving memory leaks and enhancing system stability (Python, Django, Pandas, Celery, Redis, Docker, AWS S3).

• Built concurrent web scrapers for brand safety AI categorization of millions of URLs daily (Python, Pandas, BeautifulSoup, OpenAI).

• Architected and implemented a scalable and critical Analytics Logging API with anti-bot protection, including rate-limiting in NGINX, rate-limiting in routes, User-Agent verification, and HTTP fingerprint verification (Python, FastAPI, Redis, SQLAlchemy, PostreSQL, Nginx).

• Led architectural decisions across the stack, making trade-offs between performance, cost, and scalability, while proactively addressing technical challenges and ensuring the system's long-term maintainability.

• Coordinated juniors and trainees in various tasks, conducted pair-programming sessions, code-reviews and provided training focused on problem-solving and best coding practices.

• Conducted Gatling stress tests on API endpoints to identify performance bottlenecks, leading to targeted optimizations that significantly reduced latency and improved overall system responsiveness..

• AdTech: Processed Verification (BrandSafety), Geolocation and Safeframe data for Display and VAST national campaigns of huge State Companies, such as Caixa Econômica Federal, Ministério da Saúde, Ministério do Desenvolvimento Social and SEBRAE.

Junior Software Engineer, Metrike
Mar 2022 - Oct 2023

• Developed an internal application for users to validate the integrity of auto-captured daily ad-banner snapshots.

- Frontend: React.js, JavaScript, HTML, TailwindCSS

- Backend: Python, Django

- Automation: Python, ApiFlash (for website snapshots)

• Created concurrent web scrapers to build a comprehensive database of all cities and states in Brazil. (Technologies: Python, Pandas, Supabase)

• Built a marketing website with effective CTAs to drive user engagement. (Technologies: Python, Django, HTML, CSS, JavaScript)

• Resolved layout responsiveness issues on websites, ensuring seamless integration of ad-banner placements.

• Developed the company's email templates with clean and responsive designs.

(Technologies: HTML, CSS)

Data Engineer Freelance, PB AGORA
 Feb 2025 - Feb 2025
• Designed and Implemented a Web Scraper to automate the extraction and processing of critical sea-level data from the Brazilian Marine website. Previously, this process was performed manually, leading to delays — especially on non-business days — and creating inefficiencies in data availability. My solution transformed this workflow into a fully automated system, improving processes efficiency and minimizing delay. (Python, Pandas and PyPDF).

• Developed an internal application for processing Sentiment Analysis of news (Python, Flask, OpenAI, Docker, HTML, CSS).

Software Engineer Freelance, DeuCrédito
Oct 2023 - Dec 2023

• Built a new partner onboarding flow for a SaaS application in the FinTech sector, enabling new contributors to fully customize their pages with real-time change previews, positively impacting the onboarding process and significantly enhancing the user experience. (Technologies: Python, Django, HTMX, JavaScript, HTML, CSS)

Education
• Bachelor in Computer Science, UFPB, 2023-2027 (In progress)

• Associate in Systems Development and Analysis, Cruzeiro do Sul, 2023-2025 (In progress)

Languages
• Portuguese: Native

• English: Fluent

• Spanish: Basic

Skills

• Backend: Python, Django, Django Rest Framework, Flask, FastAPI, Celery.

• Data Engineering: Pandas, Numpy, SQLAlchemy, ElasticSearch, Apache Airflow.

• Frontend: HTML, CSS, Javascript/Typescript, ReactJs, NextJs, TailwindCss, Redux.

• Databases: MySQL, PostgreSQL, Redis, MongoDB.

- DevOps: Docker, Nginx, Git, Google Cloud (GCP), Digitalocean.

- Basic proficiency: Node.js, C/C++, AWS, Assembly Masm32.