

MIGUEL TACIANO

contact@mtaciano.com | mtaciano.com | [github/mtaciano](https://github.com/mtaciano) | linkedin/in/mtaciano | +55 (11) 94598-8713

Computer Engineer with experience in front and back-end development, embedded systems, and data engineering. Highly proficient in C, Python, TypeScript, and Rust. Focused on delivering high-quality and scalable products. Looking for opportunities to apply my skills in a dedicated software engineering role where I can drive impactful solutions.

EDUCATION

Universidade Federal de São Paulo — São José dos Campos, BR 2019 – 2023

B.S. in Computer Engineering

- *Selected Coursework:* Databases, Operating Systems, Embedded Systems
- *Relevant Clubs & Events:* Center for Games and Internet Studies, SBC Programming Marathon

WORK EXPERIENCE

Data Engineer & Software Developer 02/2023 – 01/2024

Johnson & Johnson — São José dos Campos, BR

- Developed a website used by more than 60,000 medical professionals across all of Latin America.
- Ensured continuous operation through component and integration testing using Cypress, Node.js, and Jenkins.
- Analyzed and tracked more than 350,000 users using Power BI, Google Analytics, and Data Studio.

Scholarship Researcher 05/2022 – 12/2023

Embraer & CNPq — São José dos Campos, BR

- Researched and developed an innovative machine learning and computer vision solution for optimizing the arrangement of aircraft parts in an industrial oven with over 95% accuracy, using Python, PyTorch, and OpenCV. The work was published in an AI-focused article, detailing the problem and its solution.

PROJECTS

FPGMIPS (github.com/mtaciano/fpgmips) 04/2022 – 01/2023

- Designed and implemented a functional 32-bit CPU, alongside an operating system capable of multitasking, priority management, and context switching, using Verilog and FPGAs.

CMC (github.com/mtaciano/cmc) 01/2022 – 02/2023

- Developed a compiler for the created language C-, designed specifically for FPGMIPS custom CPU instructions and operating system, using C and Rust.

PUBLICATIONS

M. Taciano, V. Pugliese, and F. Faria. "SegSemPuzzle: Solving Jigsaw Puzzles with Semantic Segmentation", in *Anais do XVIII Workshop de Visão Computacional*, São Bernardo do Campo/SP, 2023, pp. 131-136, doi: <https://doi.org/10.5753/wvc.2023.27545>.

SKILLS

- **Frontend** TypeScript, JavaScript, React, Next.js, Angular, Jest, Playwright, HTML, CSS, Tailwind
- **Backend & Data** Python, Node, PostgreSQL, MySQL, Prisma, Java, C++, PostHog, Power BI
- **Embedded** C, Rust, FPGA, Verilog, Arduino, PIC, MATLAB, SysML
- **DevOps** Linux, CI/CD, Git, Docker, Docker Compose, Jenkins, Agile
- **Languages** Fluent Portuguese, Fluent English, Intermediate Japanese