

**Iara Leodoro Teotonio de Souza**  
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### **Professional Summary:**

Backend Software Engineer with over four years of experience in developing scalable and distributed systems for digital security. Specialist in C++, Python, and API development using Flask and FastAPI, with experience in AWS integration (S3, EC2). Focused on efficient architecture, performance optimization, and real-time processing.

### **Education:**

Postgraduate in Data Science and Artificial Intelligence | UNIMAR | 2025

Technologist in Systems Analysis and Development | Fatec | 2023

Technical Degree in Computer Science | ETEC | 2019

### **Professional Experience:**

#### **Backend Software Engineer / Team Lead**

*Fulltime Gestora de Dados, Brazil | Oct 2020 – Present*

- Developed REST and gRPC APIs for integrating security and monitoring systems.
- Built backend services using Flask and FastAPI, creating efficient endpoints for data handling and system integration.
- Implemented distributed and high-performance systems using C++ and .NET/C#.
- Utilization of C++ versions (11/14/17) with CMake, GDB, and GCC.
- Optimized data processing pipelines, ensuring low latency and high throughput.
- Integrated security systems with external platforms via WebSockets and gRPC.
- Applied parallelism techniques and code optimization to enhance the performance of critical applications.
- Developed and maintained image analysis and processing solutions, improving monitoring system efficiency and security.
- Used Docker and Kubernetes for containerization and orchestration of microservices.
- Led a technical team and coordinated projects using the Kanban agile methodology.
- Deployed and managed applications on AWS using EC2, S3, and CloudWatch.
- Managed code versioning with Git, using GitLab for branch control and merge requests.

**Technical Skills:**

- Programming Languages: Python (Advanced) | C++ (Intermediate) | .NET/C# (Intermediate).
- Backend Development: Flask API (Intermediate) | FastAPI (Intermediate) | REST APIs (Advanced) | gRPC (Intermediate) | WebSockets (Intermediate) | CMake, GDB, GCC (Intermediate).
- Cloud & DevOps: AWS (EC2, CloudWatch, S3) (Intermediate) | Docker & Kubernetes (Intermediate).
- Optimization & Performance: CUDA (Intermediate), cuDNN (Intermediate), model compression techniques (Intermediate).
- Databases: MongoDB (Intermediate) | SQLite (Intermediate).

**Languages:**

- **Portuguese:** Native
- **English: Intermediate (B1)** – KNN Idiomas (2023)

**Certifications:**

- Intermediate C++, Udemy, 2020
- Learn Advanced C++ Programming, Udemy, 2020
- Python 3, Carreira Alura, 2020
- Practical Deep Learning with TensorFlow and Python, Udemy, 2020
- Python for Computer Vision (OpenCV/Deep Learning), Udemy, 2020