

# F. Marlon Sousa

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## Education

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### University of São Paulo (USP)

May 2026 - Present

*MBA in Software Engineering*

- **Focus:** Scalable systems architecture, design patterns, IT governance, and software lifecycle management for high-performance applications.

### University of São Paulo (USP)

2023 - 2027

*Bachelor's Degree in Physics*

- **Relevant coursework:** Probability and Statistics, Numerical Analysis, Data Structures and Algorithms, Neural Networks, and Deep Learning.

### Faculdade de Informática e Administração Paulista (FIAP)

2020 - 2022

*Associate Degree in Cybersecurity*

- **Relevant coursework:** Cryptography, Network Security, Deep Learning for Cybersecurity, and Federated Learning.

## Experience

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### AI Engineer

São Paulo, SP January

*Foursys*

2023 - Present

- Technical leadership in the design and development of **enterprise LLM-based solutions**, including semantic search, multi-agent systems, and decision-support platforms.
- Advanced hands-on experience with **Prompt Engineering, Fine-Tuning (LoRA/PEFT)**, and autonomous workflow orchestration.
- Implementation of the **Model Context Protocol (MCP)** for modular and scalable AI systems in production environments.
- End-to-end development of **REST APIs (FastAPI/Django)** focused on observability, monitoring, and model versioning.
- Cloud-native deployments using **Docker** and infrastructure on **GCP and Azure**.

### Systems Programmer

São Paulo, SP January

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2022 - 2024

- Backend development using **Python/Django** for high-performance enterprise systems.
- Optimization of **PostgreSQL** databases and implementation of CI/CD pipelines.

## Certifications

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- **AWS Certified Developer – Associate**

*(In Progress)*

- **Certified Penetration Testing Professional**

2021

- **Certified Threat Intelligence Professional**

2021

## Technologies

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**AI & ML:** LLMs, Multi-Agent Systems, Fine-Tuning, Hugging Face, PyTorch, LangChain, MLOps.

**Software:** Python (Django/FastAPI), C/C++, Docker, PostgreSQL, GCP, Azure, Git.