Pedro Liu

- **Telephone:** (51) 98273-2829
- **LinkedIn:** www.linkedin.com/in/pedro-liu/
- **Github:** github.com/PedroTxfl

PROFILE

Software Developer with a degree in Systems Analysis and Development and experience in Python, C#, and Java. Specialized in integrating Artificial Intelligence solutions within corporate environments, with production projects involving Computer Vision, RAG (Retrieval-Augmented Generation), and process automation. Possessing a solid foundation in DevOps and Cloud technologies (AWS, Azure), I seek an opportunity as a developer to build robust, efficient, and intelligent systems.

PROFISSIONAL EXPERIENCE

Artificial Intelligence and Software Development Intern

Safeweb | Marchde 2025 – Present

- Developed a deepfake detection system, creating two production APIs that became a crucial security barrier for the company.
- Designed and implemented a cascaded model architecture that reduced the anti-fraud team's manual analysis workload by 98%. The solution, using Python, Flask, and OpenCV, among other technologies, was rigorously tested, ensuring that no known fraud cases bypassed the system.
- Developed and deployed two "bridge" APIs in C# (ASP.NET Core) and Python to automate data integration between legacy systems and new applications.
- Mapped business processes in areas such as Finance and Support, identifying bottlenecks and proposing solutions. Developed multiple conversational agents (bots) using Microsoft Copilot Studio and Power Automate.
- Conducted Proofs of Concept (PoCs) with Generative AI technologies, creating RAG (Retrieval-Augmented Generation) systems with local LLMs (Ollama), LangChain, and vector databases (ChromaDB) to optimize secure information access.
- Developed a complete PoC for a WhatsApp sales bot, utilizing the Meta Cloud API and Node.js to validate the technical feasibility of a new business channel.
- Currently, I am integrating the Data Mining and Machine Learning project team to create a fraud risk scoring model, analyzing customer behavior to enable more proactive and data-driven anti-fraud action.

IT Support Intern

Tribunal Regional Federal 4ª região | September 2023 – October 2024

- Provided technical support and assisted with IT infrastructure administration, developing

strong software/hardware diagnostic and user support skills. This experience was fundamental in understanding user needs and the dynamics of a complex technological environment.

DevSecOps AWS Intern
Compass UOL | March 2023 – September 2023

- Developed automation scripts (Shell Script, AWS CLI) to optimize the validation and deployment of services in AWS environments.
- Implemented and managed AWS cloud infrastructures (EC2, S3, VPC) using Infrastructure as Code (IaC) practices with Terraform and CloudFormation.
- Managed the deployment and orchestration of containerized applications with Docker and Kubernetes (EKS), configuring Linux environments (Apache, NFS).
- Applied cloud security practices, including configuring Security Groups, VPC networks, and analyzing web application vulnerabilities (WAF), following the Scrum methodology.

SKILLS

Main Technologies:
- **Languages & Backend Frameworks**: Python (Flask, Django), C# (ASP.NET Core), Java
- **Artificial Intelligence & Machine Learning**: Computer Vision (OpenCV, YOLO), NLP, RAG, LLMs (Ollama), LangChain, Data Mining, Fraud Detection
- **DevOps & Cloud:** AWS (EC2, S3, VPC, Lambda), Azure, Docker, Kubernetes (EKS), Nginx, Gunicorn, Infrastructure as Code, AWS CLI, Azure DevOps.
- **Front-end & Other Tools:** Angular, Power Platform (Copilot Studio, Power Automate), Git

Soft Skills:
Clear Communication, Proactivity, Problem-Solving, Adaptability, Results-Oriented, Willingness to Learn.

ACADEMIC BACKGROUND

Systems Analysis and Developments
Centro Universitário Senac - Completion in December 2025

COURSES AND CERTIFICATIONS

- AWS Certified Cloud Practitioner - Amazon Web Services
- Azure AI-900: Azure AI Fundamentals - Azure Microsoft (In preparation)