

# Luis Gustavo Hedel Marchiore

Full-Stack Developer/AI Developer

Quatro Barras - Paraná - Brazil

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**Citizenship:** Brazilian, Italian (in process)

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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## Professional Summary

Full-stack developer with hands-on experience in web application development and AI-powered systems. Skilled in building frontend interfaces using React and Next.js, and developing robust APIs with Django and FastAPI. Proficient with modern data workflows, deployment tools, and clean architecture practices. Native Portuguese speaker and proficient in English (B2 level).

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## Technologies

**Frontend:** HTML, CSS, Tailwind CSS, JavaScript, TypeScript, React, Next.js

**Backend:** Python, Django, FastAPI, Express.js, NestJS

**Database:** PostgreSQL, SQL

**DevOps & Tools:** Docker, Git, Swagger/OpenAPI

**AI & ML:** TensorFlow, Keras, YOLOv11, Scikit-learn

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## Academic Education

**Federal University of Technology – Paraná (UTFPR), CPGEI** — *M.Sc. in Electrical Engineering and Industrial Computer Science* | May 2025 – Present

**UniBrasil**, *Bachelor's Degree in Software Engineering* | January 2021 – December 2024

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## Professional Experience

**Full-Stack Developer | Kpercon Sistemas** (April 2024 - Present)

- **Front-End Development:** Engineered responsive, accessible interfaces using TypeScript, React, and Next.js (App Router), optimizing performance and reusability with Context API and Tailwind CSS.

- **API Architecture:** Architected and implemented RESTful services in Python with Django REST Framework, incorporating JWT authentication, custom permission schemes, advanced serializers, and Swagger/OpenAPI documentation.
- **Data Modeling:** Designed PostgreSQL schemas from the ground up, defining complex relationships, enforcing validation rules, and orchestrating migrations to ensure data integrity and scalability.
- **Access Control:** Integrated Open Policy Agent (OPA) with OPAL for attribute-based access control (ABAC), crafting Rego policies and leveraging Kafka streams for real-time policy updates; containerized the full stack (OPA, OPAL, Kafka, Debezium) with Docker.
- **Event-Driven Systems:** Orchestrated event-driven microservices using Kafka and Debezium to synchronize database events, policy updates, and physical access controls — ensuring high availability and consistency.
- **Collaboration & Versioning:** Streamlined team workflows with Git, enforcing modular code structures, code reviews, and CI best practices.

#### AI Developer | Stylist.AI (July 2024 - Present)

- **Project Leadership:** Led end-to-end development of an AI-driven outfit recommendation platform, overseeing dataset curation, annotation, model training, deployment, and API integration.
- **Detection & Classification:** Engineered custom YOLOv11 models for precise clothing and human-part detection, improving catalog taxonomy and enabling advanced visual search.
- **Predictive Modeling:** Developed deep residual networks with hyperparameter tuning via Keras Tuner to score and rank outfit combinations by visual appeal and compatibility.
- **Generative Systems:** Designed a Conditional Variational Autoencoder (CVAE) with attention mechanisms, authoring bespoke loss functions and feedback loops to generate coherent, popularity-conditioned outfit proposals.
- **Dataset Quality:** Curated large-scale image sets by filtering ambiguous samples and correcting label inconsistencies, streamlining training pipelines.
- **Feature Embeddings:** Implemented scalable VGG16-based feature extraction pipelines for similarity analysis and rapid item retrieval.