

Alessio Carnevale

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PROFILE

AI software developer with a BSc in Data Science and Artificial Intelligence. Built and evaluated a local RAG system for clinical guideline retrieval and delivered client websites with SEO and GEO improvements.

EDUCATION

SUPSI University of Applied Sciences and Arts of Southern Switzerland <i>BSc in Data Science and Artificial Intelligence</i>	Lugano, Switzerland 2023 – 2026
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EXPERIENCE

AI Software Developer Intern <i>Alwicom SA</i>	Oct. 2026 – Present <i>Mendrisio, Switzerland</i>
- Contribute to AI-focused software development projects, including Retrieval-Augmented Generation (RAG) systems for evidence-based medical guideline retrieval. - Develop privacy-conscious, local-first AI solutions with Python, LangChain, Ollama, Qwen, bge-m3, PostgreSQL/pgvector, REST APIs, and Docker.	
Self-Employed Web and AI Consultant <i>Independent Professional Activity</i>	Jul. 2026 – Present <i>Besnate, Italy</i>
- Deliver digital products and digital marketing services for small and medium businesses, spanning responsive websites, booking and lead-generation flows, analytics, local SEO, and Google Ads. - Build and deploy web applications with TypeScript, React, Next.js, Astro, Supabase, Netlify Functions, and Vercel.	
IT Intern <i>Computer Time</i>	Oct. 2022 <i>Somma Lombardo, Italy</i>
Installed and configured switches, routers, VLANs, firewalls, and fiber networks in a client-facing IT support environment.	

SELECTED PROJECTS

Local Medical Guideline RAG System <i>Python, Ollama, pgvector, Docker</i>	Aug. 2026
- Designed and evaluated a fully local RAG system for 44 clinical guidelines and 3,236 PDF pages, combining metadata-aware ingestion, dense retrieval, cross-encoder reranking, and source/page citations. - Retrieved the expected guideline in 98/99 benchmark questions; an internal LLM judge rated 94/99 answers correct.	
TaxAI (Pre-launch MVP) <i>FastAPI, Next.js, PostgreSQL/pgvector</i>	2026
Co-founded and built an Italian tax assistant combining hybrid vector and keyword retrieval, reranking, source-linked answers, and personalised fiscal deadlines.	

TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, SQL, R, C++, C#
AI and Data: Machine Learning, Deep Learning, NLP, RAG, LLMs, LangChain, Computer Vision
SEO and GEO: Structured data, content optimization, local search, Google Business Profile
Frameworks: FastAPI, Flask, React, Next.js, Node.js, Astro
Data and Cloud: PostgreSQL, pgvector, MongoDB, Supabase, AWS S3, REST APIs
Developer Tools: Git, GitHub Actions, Docker, Linux, Vercel, Netlify
Spoken Languages: Italian (native), English (B2), German (A2)

CERTIFICATIONS

Claude Code in Action <i>Anthropic Academy</i>	Issued Sep. 2026
Google Ads Search Certification 2026 <i>Google Skillshop</i>	Issued Sep. 2026