Felipe Virginio
Software Engineer | AI Automation • APIs • Cloud Systems
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SUMMARY

Backend Engineer focused on AI-powered automation systems and scalable APIs. Experience designing backend architectures, handling concurrent workloads, and deploying applications in cloud environments.
Focused on building systems that replace manual workflows using AI, improving efficiency and reducing operational effort.

SKILLS

Backend: Python (FastAPI, Flask), Node.js, REST APIs, async processing
Cloud & DevOps: AWS (EC2, S3), GCP, Docker, Hostinger, Git
AI & Automation: OpenAI GPT-4, AI Agents, prompt engineering
Tools: SQL, GitHub, API testing, debugging

EXPERIENCE

Web Developer | Instituto Cuidar Bem | Apr 2026 – Present
Remote – Brazil
Develop backend solutions using Node.js and Python (FastAPI) in hosted environments (Hostinger)
Structured system architecture and improved maintainability and performance
Implemented integrations and backend logic supporting scalable workflows

Software Developer (Freelance) | 2025 – Present
Built scalable backend applications integrating APIs and automation workflows
Designed async architectures using FastAPI and delivered cloud-based solutions
Implemented validation, error handling, and modular systems for reliability

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PROJECTS

AI Backend Engineer | CloseZap AI | 2025
Built AI-powered automation system handling 100+ concurrent conversations
Designed async backend (FastAPI) and integrated OpenAI GPT-4 for lead qualification
Implemented WhatsApp workflows via Twilio API and automated lead classification
Reduced manual effort by ~60–70% through automated conversation flows

EDUCATION

Technologist in Systems Analysis and Development — UNIP (2021–2024)
AWS Cloud & AI (TreinaBrasil – Santander Academy, Ongoing)

Additional Training:
Python Programming (120h) – Escola SENAI "Santos Dumont" (São José dos Campos - SP)
Cloud Computing Fundamentals (45h) – SENAI Elias Haddad (Jacareí - SP)

ADDITIONAL

Mechanical Technician (Fagtec, 2025–2026) | IT Support Intern (2022) | Network Infrastructure (2022–2024)
Languages: Portuguese (Native), English (Professional), Spanish (Intermediate), French & Italian (Basic)