

Nicolas Pietro A. S.

Full Stack Developer — Artificial Intelligence Student

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Summary

Full Stack Developer focused on TypeScript, Next.js/React, automation, and AI integration in web products. Practical experience with Supabase, PostgreSQL, MongoDB, Prisma, Docker, n8n, webhooks, AI APIs, and structured use of code agents in development workflows. Currently a Full Stack Developer intern at CaisHub and pursuing a Bachelor's degree in Artificial Intelligence at UFDPAr.

Experience

Dec. 2025 – **Full Stack Developer**, *CaisHub*, Parnaíba, PI

- Present
 - Worked on n8n automations, webhook integrations, and web application development.
 - Contributed as a full stack developer and system designer on Farol DAO, using Next.js, TypeScript, Docker, and AI services.
 - Used code agents, MCPs, and prompt engineering to speed up technical investigation and documentation.

Education

2026 – **Bachelor's Degree in Artificial Intelligence**, *Federal University of Delta do Parnaíba*
Present – *UFDPAr*, Parnaíba, PI

Program focused on data science, machine learning, automation, applied robotics, research, and innovation.

Jan. 2023 – **Technical High School in Informatics**, *Federal Institute of Piauí – IFPI*, Parnaíba, PI

Dec. 2025 Foundation in web development, programming logic, Arduino, systems analysis and design, Node.js, and Git.

Selected Projects

2026 **Farol DAO**, *AI-powered platform connecting entrepreneurs with the innovation ecosystem*, faroldao.com.br

- Project developed at CaisHub to connect entrepreneurs with institutions, hubs, accelerators, investors, and specialists.
- Worked as a full stack developer and system designer, contributing to architecture, product organization, and AI service integrations.
- Stack includes Next.js, TypeScript, Docker, automations, code agents, and integrations with tools such as OpenRouter, Google AI Studio, DeepSeek, and ElevenLabs.

- 2026 **Fiufeed**, *Open source social network for short audio posts*, fiufeed.vercel.app — github.com/nicolaspier/fiufeed
 - Social product with audio posts, public/private groups, reposts, profiles, competitions, voting, and badges.
 - Built with Next.js 16, React 19, TypeScript, Tailwind CSS 4, and Supabase with Auth, Postgres, Storage, and RLS.
 - Public repository with README, screenshots, GIFs, deployment guide, production checklist, and contribution instructions.
- 2025 **Robi Assistant**, *Local Portuguese voice assistant*, github.com/nicolaspier/robi-assistant
 - Python system with speech recognition through Whisper, AI responses through Ollama, and natural voice synthesis with Yapper-TTS/Piper.
 - Implements voice activity detection, silence control, and anti-feedback handling to prevent the assistant from listening to its own speech.
- 2024 **PlantCollect**, *AI-powered plant identification*, IFPI — academic project
 - Application for plant identification and care/treatment recommendations using AI API integration.
 - Built with React/React Native and presented at scientific events from IFPI and the Parnaiba region.
- 2024 **GuaraniChat**, *Experimental chat with linguistic encoding*, Ciencia PHB – 4th place
 - Chat project exploring encoded communication inspired by the historical use of languages in secure messaging.
 - Built with React, Node.js, WebSocket, and translation integration; received an honorable mention at Ciencia PHB.

Events and Recognition

Ciencia PHB	GuaraniChat placed 4th and received an honorable mention for the presenters.
IFPI na Praca	Presented PlantCollect and GuaraniChat to an external audience.
Innovation, Science and Sustainability Fair of Delta do Parnaiba	Presented scientific projects focused on creativity, technology, and social impact.

Skills

Frontend	TypeScript, JavaScript, React, Next.js, Tailwind CSS, HTML, CSS, responsive UI.
Backend and data	Node.js, Express, Python, PostgreSQL, MongoDB, Supabase, Prisma, REST APIs, authentication, and RLS.
AI and automation	OpenAI API, Whisper, Ollama, Yapper-TTS, OpenRouter, Google AI Studio, DeepSeek, n8n, webhooks, MCPs, prompt engineering, Codex, and Claude Code.
DevOps and tools	Git, GitHub, Docker, Vercel, Linux/VPS, basic testing, technical documentation.
Roblox/Luau	Systems, interactive GUIs, and Luau scripts for Roblox Studio experiences.
Languages	Portuguese native, fluent English, basic French, and basic Spanish.

Links

Portfolio	nicolaspier.workers.dev
GitHub	github.com/nicolaspier

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