



Lucas Costa

AI Engineer · Full Stack Systems Architect & Software Developer

Vancouver, BC, Canada · lucas@lucaswebsystems.com · +1 (778) 557 6662 · lucaswebsystems.com · linkedin.com/in/lucas-costa-t · github.com/lucasw

SUMMARY

Twenty years of web engineering under two years of applied AI: voice agents, multi LLM routing, RAG pipelines and the full stack that carries them to production. Open to AI engineering and senior full stack roles, hybrid in Vancouver or remote.

EXPERIENCE

Seasmoke Hospitality

Vancouver, BC, Canada

AI Engineer

2025 to Present

- Leads all AI engineering across Seasmoke's products, workflows and client systems, and moved the company from traditional web development to AI driven systems, products and workflows.
- Architected and shipped five or more production systems as the sole architect, lead developer and deployment engineer: real time voice agents on Vapi, ElevenLabs and LiveKit that take customer service and reservation calls, chat agents, RAG pipelines over Markdown and vector retrieval, and n8n automation workflows wired into APIs, databases and CRMs.
- Designed the multi LLM routing on OpenRouter that weighs cost, latency and task complexity per request, cutting inference spend by 40 percent or more at the same quality, and brought MCP servers and agentic workflows to the team with hands on training for non technical staff.

Senior Web Developer

2017 to 2025

- Built and maintained 35 plus WordPress websites for luxury resorts across Central America and the Caribbean, with booking engine integrations on WordPress, PHP, JavaScript, React and Next.js.
- Owned the platform around every site: hosting, DNS, SSL certificates, themes, plugins, SEO and performance, so each property stayed fast and online.
- Ran the Google Ads, Facebook Ads and LinkedIn campaigns and the promotional graphics behind them, driving direct bookings and revenue for the resorts.

EnrollmentResources.com

Victoria, BC, Canada

Web Designer and Developer

2015 to 2016

- Created and developed WordPress websites for universities across the USA and Canada, from fully responsive themes to the custom plugins their enrollment platforms needed.
- Managed each project end to end: analysis and review of the work, client communication and quality assurance before delivery.

Officepools.com

Victoria, BC, Canada

Front end UI and UX Developer

2014 to 2015

- Responsible for the whole front end of the Officepools product, the website and the system's interface alike.
- Designed and built the new UI and UX components and features the platform shipped, from layout to interaction.

NeoAssist.com

São Paulo, SP, Brazil

Web Designer and Developer

2009 to 2014

- Developer chief of the front end for NeoAssist's multi platform customer service tools, the multimedia servicing of enterprise customers.
- Analysed and reviewed projects for the company's clients, and created websites and platforms for international accounts including Walmart, Nike, Kraft Foods, Unilever and Sephora.

Colégio Dimensão

São Paulo, SP, Brazil

Technical support and web

2005 to 2006

- Supported students upgrading their skills in Photoshop, HTML and CSS.
- Designed, built and maintained the front end of the school's website, and created the graphic advertisements for its events and activities.

SELECTED AI SYSTEMS, IN PRODUCTION

At Seasmoke Hospitality, 2025 to 2026.

AI concierge voice agents. Real time voice agents with Vapi, ElevenLabs and LiveKit, LLM orchestration for multi turn dialogue, and the fallback, escalation and error handling logic around them. Outcome: Handles real customer interactions daily with production grade reliability.

Multi LLM routing architecture. Dynamic model selection through OpenRouter that weighs cost, latency and task complexity in real time, with fault tolerant fallbacks across providers. Outcome: Inference costs down 40 percent or more with response quality held.

RAG knowledge systems. Markdown knowledge bases with vector retrieval, ingestion workflows that turn unstructured data into searchable stores, and retrieval pipelines feeding the agents. Outcome: More accurate and reliable answers for domain specific use.

INDEPENDENT PRODUCTS

- **OpenLimiter** (Founder, 2026, openlimiter.com): Local first quota meter for AI coding subscriptions.
- **Bashertz** (Founder, 2026, bashertz.com): An AI Shadchan for marriage minded Jewish singles.
- **Perpeta** (Founder, perpeta.com.br): Legal AI for Brazilian lawyers, citations checked against the source.
- **RagnarokBR** (Founder, ragnarokbr.com): A Brazilian Ragnarok Online server, back with the original crew.
- **BizAdemy** (Founder, newsite.bizademy.com): Websites, ads, search and AI assistants run as one lead system.

SKILLS

Software	TypeScript, React, Next.js, GSAP, Three.js, WordPress, Node.js, PHP, REST APIs, Webhooks, Databases
AI systems	MCP, Tool use, Evals, Agents, Prompt engineering, OpenRouter, OpenAI, Anthropic, Gemini, Grok, Kimi, DeepSeek, Vector search, Ingestion pipelines, Markdown knowledge bases, RAG
Automation	n8n, Vapi, ElevenLabs, LiveKit
Infrastructure	Vercel, Cloudflare, Docker, Linux, DNS and email, CI and CD

EDUCATION

Universidade Presbiteriana Mackenzie , São Paulo, SP, Brazil	2010 to 2014
Four years of Computer Science coursework.	

LANGUAGES AND TEACHING

Portuguese (native), English (fluent), Spanish (conversational). Taught courses in Berlin, Lisbon, São Paulo and Vancouver.