

Gabriel Pitrella

Senior Software Engineer | HubSpot CRM Integrations | AI Platform & MCP Infrastructure | Node.js · TypeScript

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years building production systems across HubSpot CRM ecosystems, AI/agent infrastructure, and cloud-native platforms, backed by a 14-year engineering career (including 7 years at Toyota) that brings strong systems-thinking, quality discipline, and a continuous-improvement (Kaizen) mindset to software delivery. Hands-on experience with HubSpot CRM data, serverless integrations, REST APIs, the MCP protocol, OAuth 2.1, OpenAI embeddings, and vector search. Creator of Memxus, an open-source remote MCP server that gives Claude, ChatGPT, and Cursor a shared, authenticated, persistent memory layer. Comfortable owning systems end-to-end — architecture, authentication, deployment, and monitoring.

AI & AGENT SYSTEMS

- Designed and built Memxus end-to-end: memory architecture, authentication flow, retrieval layer, and deployment model for a remote MCP server used by Claude, ChatGPT, Cursor, and Claude Code.
- Implemented OAuth 2.1 + PKCE with Dynamic Client Registration (RFC 9728) and Streamable HTTP transport for secure multi-client AI agent access.
- Built persistent semantic memory using Supabase pgvector and OpenAI embeddings, exposed through 13 MCP tools (remember, recall, get_context, connectors for GitHub/Notion sync, etc.).
- Designed the system for cross-client interoperability and future integrations with Slack, Notion, and Telegram.

PROFESSIONAL EXPERIENCE

Senior Full Stack Engineer · HubSnacks — The Alt' HubSpot Agency

Jul 2022 – Present

Work with international HubSpot clients to build and maintain CRM-connected applications, internal integrations, serverless functions, and custom workflows across cloud-native and enterprise environments.

HubSpot CRM & Serverless Integrations

- Built serverless Node.js endpoints (HubSpot CMS, Node 18) connected to HubSpot CRM objects and account data for an international test-centre directory platform, including logo enrichment and membership-gated access.
- Developed custom HubL modules and REST API integrations that retrieved, transformed, and rendered CRM data across corporate client portals.
- Implemented gated access and CRM-driven business logic inside HubSpot environments; maintained CI/CD pipelines and performance/SEO optimization.
- Worked directly with international clients to translate CRM and integration requirements into production features.

Defense Innovation LMS Platform

- Built and maintained a mission-critical Learning Management System for a multinational defense innovation accelerator, owning full-stack features end-to-end from Next.js frontend to containerized backend services in a security-cleared environment.

Stack: Next.js · Express · Keycloak (OIDC/OAuth) · Azure SQL · Azure Blob · Kubernetes · Harbor registry · Game Warden

Full Stack Web Developer · L'AQUA Store (E-commerce)

Feb 2021 – Sep 2023

- Designed and implemented a full e-commerce platform with React and Next.js, including payment gateway integrations.
- Improved SEO and conversion through frontend optimizations and analytics-driven improvements.

PRIOR EXPERIENCE — INDUSTRIAL & QUALITY ENGINEERING (14 YEARS)

Front-End / Quality Assembly Engineer · Toyota Argentina

Nov 2014 – Mar 2022

Developed internal Next.js/AWS applications for visualization of vehicle and production variables; combined software development with Kaizen practices to improve production processes and quality assurance.

Quality & Project Engineer · Pedro Bucciero Industries

Sep 2009 – Nov 2014

Led quality and engineering initiatives for automotive parts projects (PSA, GM, FIAT) under ISO/TS standards; programmed CNC/PLC systems and coordinated cross-functional engineering teams.

OPEN SOURCE PROJECTS

Memxus — AI Memory Infrastructure · memxus.com · github.com/gpitrella/memxus-remote-mcp

- Remote MCP server with OAuth 2.1 + PKCE giving Claude, ChatGPT, Cursor and other AI editors a shared persistent memory layer.
- Full stack: Next.js dashboard, Node.js MCP server, Supabase persistence, vector search with OpenAI embeddings, deployed on Railway.
- Submitted to the Anthropic Claude Connectors Directory, Slack App Marketplace, and Cursor Marketplace.

MCP-Secrets-Vault — Security-first credential manager for AI agents (*in development*)

- Open source MCP server that stores, rotates, and distributes API keys/secrets for AI agents. AES-256-GCM encryption, SQLite default, zero third-party crypto dependencies.
- 8 MCP tools (set/get/rotate/list/delete/search/import_env/export_env); OWASP MCP Top 10 mitigations and supply-chain hardening (pinned deps, lockfile, npm audit in CI).

TECHNICAL SKILLS

AI & Agents: MCP Protocol, AI agent/tool integrations (Claude, ChatGPT, Cursor), OpenAI Embeddings, Vector Search (Supabase pgvector), OAuth 2.1 + PKCE

CRM & Integrations: HubSpot CRM, HubSpot CMS, HubL, Serverless Functions, REST APIs, Webhooks

Backend: Node.js, TypeScript, Express.js, GraphQL, JWT, PostgreSQL, Supabase, MongoDB

Cloud & Infrastructure: Docker, Kubernetes, Azure (SQL + Blob), Keycloak, Railway, Vercel, CI/CD (GitHub Actions), Game Warden

Frontend: Next.js, React, Redux Toolkit, Tailwind CSS, HTML5, CSS3, SASS

EDUCATION & CERTIFICATIONS

Industrial Engineer · National University of Cuyo

Postgraduate in Industrial Automation · University of Buenos Aires

HubSpot CMS for Developers & Architecture Certifications · HubSpot Academy

Full Stack Web Developer · Henry Bootcamp

LANGUAGES

English: C1 Advanced **Portuguese:** B1 Intermediate **Spanish:** Native