Gabriel Camacho

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SKILLS

Languages: Python, SQL (T-SQL, PostgreSQL), TypeScript, JavaScript, Java, C++
Data: SQL Server (SSMS), pandas, ETL pipelines, data modeling (ERDs), normalization, JSON/XML/Excel integrations
Web: React, Node.js, Express, Vite, REST APIs, HTML/CSS
Infra & Tools: Git, Docker / Docker Compose, Linux, systemd, pytest, Vitest, Tailscale
AI: LLM integration (Ollama, Claude), Whisper speech-to-text, embedding-based routing, AI coding agents

EXPERIENCE

Harvey Performance Company | Cutting-tool manufacturer, 15 brands — Rowley, MA (remote since 2025)
Data Automation Specialist, New Product Development (promoted) — *Jan 2026 – Present*
Marketing Technical Specialist — *Oct 2023 – Jan 2026*

- Own the SQL Server views, procedures and Python scripts that generate tool-geometry libraries for ~10 CAM software partners (Autodesk Fusion, Mastercam, GibbsCAM, SolidCAM and others) in each partner's JSON, XML or Excel format; the company's direct contact for these partners.
- Normalized tool data from brands with different database schemas (100,000+ tools) and iterated with partner engineers until each library validated; kept a review step before release so partially loaded data never ships.
- Designing a SQL Server model for a cross-brand product initiative that defines valid tool configurations per category, classifies catalog data against them, and flags product gaps, brand overlap and catalog errors; specialists maintain the rules through a validated Excel workflow.
- Building the Python ETL backend for Machine Advisor Pro, the in-house speeds-and-feeds calculator: parses inconsistently formatted engineering workbooks into SQL Server with transactional batch loads and automatic correction of data-entry errors; updates go live in the calculator immediately.
- Converted German brand Karnasch's cutting-data catalog (140+ tool lines in ~40 distinct sheet layouts) into the company's standard format with a modular Python pipeline, scraping the brand's online catalog to fill gaps in the source data.
- Automated catalog production with Adobe InDesign JavaScript scripts that fill sales and tool data from Excel, saving 1–2 weeks of manual entry per catalog across 5–10 catalogs a year.

PROJECTS

Nova: Voice-Controlled AI Assistant / *Python, Ollama, Whisper, Claude Code*

- Push-to-talk desktop assistant: local speech-to-text, a local LLM that replies in real time, and streaming TTS, handing multi-step computer tasks to a headless Claude Code agent.
- Built an embedding-based tool router (~6 ms per lookup) and a benchmark harness; tuned it to 95.7% routing accuracy at 1.7 s median decision latency. Covered by 700+ pytest tests.

Catan Board Generator / *React, TypeScript, Vite, Vitest*

- Generates balanced boards by sampling 200 candidates that pass hard constraints, scoring them on soft rules, and picking from the top slice; seeded URLs make every board shareable.

Self-Hosted Home Server / *Ubuntu, Docker Compose, PostgreSQL/PostGIS*

- Run a 15 TB media and services server (Plex stack, location tracker on PostGIS, game servers) with VPN-only remote access, nightly database dumps, and Borg backups.

Classroom Simulation (WPI Capstone) / *Godot, GDScript*

- Led a team of 6 building a simulated preschool classroom that trains new teachers to spot disengaged students; set up the team's Git workflow and built sprite behavior and emotion systems.

EDUCATION

Pace University | Graduate coursework, M.S. Software Development & Engineering — New York, NY | 2025

Worcester Polytechnic Institute | B.S. Computer Science, GPA 3.52 — Worcester, MA | 2023

- Summer project in Lyon, France: user research and a Figma web mockup for Singa, an immigrant-support nonprofit.