

DANIEL GENTILE

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Woodbridge, VA

Experience

Morphy, Cell-Tower Lease Analytics (early-stage venture, two-person team) **2026 – Present**
Co-Founder & Software Engineer *Remote (Woodbridge, VA)*

- Built a **Svelte 5 + MapLibre GL** SPA filtering **2M+ parcels** in-browser with **DuckDB-WASM** and **PMTiles**.
- Designed a **FastAPI + SQLAlchemy** backend with tenant-scoped multi-user authentication and a lead-triage write layer (lead state, contact attempts, owner merge/split).
- Built a registry-driven data pipeline that normalizes and joins FCC tower, county parcel/owner, and economic-distress datasets into canonical **Parquet/GeoJSON** across **4 states (15M+ parcels)**.

Chessalyz **August 2026 – Present**
Software Engineer *Remote (Seattle, WA)*

- Built the public-sharing feature of an AI chess-coaching product: wrote the 1,400-line product and security spec, then built it across a **Node/Express/TypeScript (MongoDB)** backend and **Next.js/React** frontend, with 14 privacy invariants as a **533-test** CI-gated suite (**Jest, Vitest**).
- Designed a token-based publication model: type-enforced allowlist projection of private data, per-link exposure controls, a kill switch with batched revocation cascade, indistinguishable 404s, and **Open Graph** unfurls.

Comcast **September 2026 – Present**
Xfinity Field Sales Professional *Woodbridge, VA*

US Chess Center **March 2026 – August 2026**
Assistant Chess Teacher *Silver Spring, MD*

Avast **July 2019 – August 2019**
Junior Quality Assurance Engineer Intern *Prague, Czech Republic*

- Functional and regression testing of multilingual web/desktop releases at a security-software company; verified fixes.

Projects

HELM: Personal AI Operating System | *TypeScript, Svelte, Python, Claude Agent SDK*  [helm](#)

- Built a phone client on the **Claude Agent SDK**: a passkey-gated **PWA** over an append-only **JSONL** event log per thread, with **SSE** replay-then-live streaming so a relaunched phone resumes a turn without losing events; **300+ tests**.
- Built the engine: **launchd** routines, a **Svelte** dashboard where each todo edit is a **git** commit, push-to-talk (**faster-whisper, Kokoro**), and a fail-closed commit guard that keeps personal data out of the public repo.

Chess Dashboard | *Python, Plotly Dash, pandas, Docker, Fly.io, GitHub Actions*  [ChessDashboard](#)

- Built a live analytics dashboard that syncs Lichess studies and USCF ratings, reconciling the two sources through a matching engine (member ID, then fuzzy name and date) that surfaces disagreements instead of silently resolving them.
- **1,175-test** suite over pure, framework-agnostic core modules; 7 ADRs; **GitHub Actions** CI; **Docker** on **Fly.io**.

We Cooked | *SvelteKit, TypeScript, Swift, SQLite, Claude API, Fly.io*  [WeCooked](#)

- Recipe app for a two-person household, live at [wecooked.kitchen](#): a **SvelteKit** web app and a native **SwiftUI** iOS app; a pasted link, text, or cookbook photos go to **Claude** for structured extraction that a person reviews before saving.
- One **Fly.io** machine, **SQLite** as the only database: a job queue in **SQLite** that claims work with one atomic update, a daily spending cap on Claude calls, a URL fetcher that blocks private ranges; **235 tests**, 40+ recorded decisions.

Technical Skills

Languages: Python, TypeScript, SQL, Swift, Java

Backend: FastAPI, Node/Express, SQLAlchemy, REST APIs, SQLite, MongoDB, DuckDB

Frontend: React, Next.js, Svelte, Tailwind, MapLibre GL

AI/ML: PyTorch, Hugging Face Transformers, scikit-learn, Claude API, multi-agent orchestration

Tooling: Git/GitHub, GitHub Actions (CI/CD), Docker, Fly.io, Render, Pytest, Jest, Vitest, Playwright

Spoken: English & Italian (native/bilingual), Spanish & Czech (conversational)

Education

University of Groningen **September 2020 – April 2025**
Bachelor in Artificial Intelligence *Groningen, Netherlands*

- Thesis: **20-participant user study** on whether uncertainty visualization changes trust in a CNN digit classifier (baseline, **MC Dropout**, **deep ensemble**, served via **Gradio**); the baseline was overconfident on hand-drawn input, the uncertainty-aware models stayed calibrated.

Coursework: Algorithms & Data Structures, Machine Learning, Neural Networks, NLP, Large Language Models.