

OMAR MADJITOV

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CS Ph.D. student and AI engineer shipping autonomous agents, and production software built by fleets of coding agents.

NOW BUILDING

- Vince** | vince.computer | *TypeScript, MCP, Claude Code, Supabase, Fly.io, Cloudflare* Oct. 2026 – Present
- Built Vince, an always-on AI chief of staff: headless Claude Code on Fly.io with Cursor/Codex CLI fallback, reachable over iMessage, a PWA, Claude Code chat, and a Mac app that sees the screen and drives the computer.
 - Designed one zod-typed registry of 44 tools served over MCP, so the agent, Claude Code and the dashboard all share one interface that can't drift: email, calendar, Drive, texts, memory, reminders, skills and background coding jobs.
 - Made Postgres the agent's operating system: RLS on every table, leader-election leases that fence every send across two machines, and a SQL gate that holds outgoing email, texts and code until a human replies "yes CODE".
 - Self-improving: it runs coding jobs in fresh worktrees and opens PRs against itself; 38 merged in 3 days, 782 tests.

EXPERIENCE

- Floor Launch** | floorlaunch.com Jan. 2026 – Present
Founding Full-Stack Engineer & Architect Atlanta, GA
- Built and shipped an AI-native ERP/CRM that replaced an \$18M-revenue pilot client's ~\$14K/month legacy stack: jobs, estimates, EDI supplier ordering, invoices, payments and accounting on React, Supabase and Cloudflare.
 - Run a fleet of parallel coding agents, each in an isolated Git worktree, landing through a merge queue with per-PR preview deploys; merged 2,700+ PRs myself, gated by a 245-test Playwright end-to-end suite and 31 CI workflows.
 - Built a Claude tool-use analytics agent (5 tools, 8-step loop, RLS-scoped) that answers business questions in plain English, plus an AI scanner that reconciles incoming supplier order confirmations against open purchase orders.
 - Built bidirectional QuickBooks Online sync plus Stripe, Xero and GoHighLevel integrations, so invoices and payments reach the books without re-keying, with idempotency and partial-failure recovery on every transaction.
 - Shipped 210+ Supabase edge functions and 2,400+ migrations, including X12 EDI supplier ordering over SFTP.

- Georgia State University** Aug. 2026 – Present
Ph.D. Researcher & TCV Presidential Fellow Atlanta, GA
- With Dr. Armin Mikler, reviewing how autonomous agents can trade efficiency against hard ethical constraints.
 - One of 12 TCV Presidential doctoral fellows; reviewing where music and AI intersect, with Dr. Tony Lemieux.
 - Joining Dr. Lemieux's music summarization project, which extracts the most representative segment of a song.

- Georgia State University** Aug. 2024 – Aug. 2026
Graduate Teaching Fellow Atlanta, GA
- Taught Python and AI-assisted coding to non-technical students, turning algorithmic ideas into hands-on exercises.
 - Designed and graded programming assignments testing logic and comprehension, showing where students need help.

- WellStar Health System** Aug. 2023 – Aug. 2024
Information Technology Intern Marietta, GA
- Imaged and deployed 40+ workstations via SCCM, moving clinical staff onto secure, standardized machines.
 - Managed Active Directory access for 5 clinical departments under HIPAA, so only approved staff see patient data.

AGENTIC PROJECTS

- Ingenium** | **Hacklanta '26 Winner, Photon Track** | [Devpost](https://devpost.com) | *TypeScript, OpenAI, E2B, Neon* Oct. 2026
- Won the Photon "Agents in iMessage" track at Hacklanta '26 with Ing, a personal agent that turns a group chat into a real, scheduled plan; led a 4-person team through 72 hours, owning the spec and writing 42 of the 64 commits.
 - Designed the multi-agent layer: Ing picks specialists from a bench of 8 (rides, food, venues, reservations) and pulls them into the iMessage group chat, while a Neon leader lease lets any laptop take over with no double replies.
- Fablebench** | [Case Study](#) | *Python, n8n, PostgreSQL, Claude API, FFmpeg, DigitalOcean* Jul. 2026 – Present
- Built an autonomous video network running 24/7: an LLM reads full transcripts, cuts sub-60s complete thoughts, and routes each clip by argmax to the best of 3 channels, posting daily to 4 platforms behind a fail-closed safety gate.
- Omar M Studio** | [Case Study](#) | *Python, Claude Code, Whisper (MLX), FFmpeg* Sep. 2026 – Present
- Built a local multi-agent production crew (research, writer, director, analyst): headless Claude Code under a tool allowlist drafts sourced scripts and lints until PASS; on-device Whisper reviews every take; backed by 454 tests.
- RAMifications** | [GitHub](#) | [Live](#) | [Case Study](#) | *Next.js, FastAPI, Playwright, Claude* Apr. 2026
- Built a DDR5 cross-retailer price tracker end to end in 90 minutes at a Claude Code workshop: live prices from 4 retailers via a stealth Playwright scraper, with a cached Claude Haiku buy/wait verdict and confidence score on top.

MACHINE LEARNING PROJECTS

- Brain Tumor Detection** | [GitHub](#) | [Case Study](#) | *Python, PyTorch, YOLOv8* Fall 2025
 - Trained a YOLOv8 brain-tumor detector in PyTorch reaching mAP@50 0.905 and IoU 0.73, after finding label mismatches that broke the original segmentation task and reframing the problem as bounding-box detection.
- Word Sense Disambiguation Router** | [GitHub](#) | [Case Study](#) | *Python, scikit-learn, spaCy* Fall 2025
 - Built an NLP router disambiguating 10 ambiguous academic nouns over a 2,000-sentence arXiv/Brown corpus; TF-IDF with MultinomialNB and LinearSVC hit 90.35% accuracy above 0.70 confidence at 2.1 ms median latency.
- Resonance** | [GitHub](#) | [Case Study](#) | *Streamlit, Python, Gemini, Last.fm API, pytest* Spring 2026
 - Built a Last.fm-backed music recommender whose three Google Gemini features each fall back to a deterministic scorer, so it never breaks when the API does; verified by a 5-profile evaluation harness and 34/34 passing unit tests.

EDUCATION

- Georgia State University, GPA 4.0** Atlanta, GA

Ph.D. Computer Science *Expected May 2030*

M.S. Computer Science (en route to Ph.D.) *Expected May 2027*

B.S. Computer Science *Dec. 2024*

TECHNICAL SKILLS

- Agents & AI:** Claude Code (headless), MCP, Claude API tool use, OpenAI, multi-agent orchestration, merge queues
- ML & Data:** PyTorch, YOLOv8, scikit-learn, spaCy, NLTK, Pandas, NumPy, Whisper
- Languages:** TypeScript, Python, SQL, Bash, Java
- Stack:** React, Next.js, Vite, Supabase, PostgreSQL, Cloudflare, Fly.io, FastAPI, GitHub Actions, Playwright, pytest