

# Sergo Azizbekyan

## Software & AI Engineer

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### ABOUT

I build backends that keep working when the things around them fail: third-party integrations isolated from core logic, retries and dead-letter queues, observability from the first deploy. I have taken a product from zero to production alone and led delivery in small teams. I work AI-first — agents write much of the code, while the design, the reviews and the trade-offs stay with me.

### EXPERIENCE

#### Software & AI Engineer · Tarsai Systems

Sep 2026 – Present

Founding team of an early-stage AI-native software company: client systems, AI integration, and a venture lab that takes new products from idea to production in weeks, with AI agents writing code and engineers owning every decision. First lab product: [Binadar.ge](#), which aggregates real-estate listings from [myhome.ge](#), [ss.ge](#) and [livo.ge](#) and alerts agents when one matches a client's brief. Serverless AWS: Lambda, SQS, EventBridge, DynamoDB, Cognito, CDK; Astro + React frontend.

- Split the monolithic API Lambda into **three functions by trust boundary**, so a bug in a public handler no longer runs with the widest IAM rights in the system (account deletion, full-table writes).
- Made manual filter runs **asynchronous** (202 Accepted + background worker) with per-caller rate limiting, lifting the 29-second API Gateway ceiling that capped manual runs below scheduled ones.
- Designed a **PaymentProvider port** and a Keepz adapter built from the public docs before credentials existed; payment callbacks are treated as hints and every plan change is re-verified against the provider.
- Built the **account-wide match inbox** on an existing index with no migration, moved state filtering server-side (fixing saved matches silently vanishing past the first page), and added numbered pagination in the frontend.
- Restructured the monorepo into a shared core + per-service layout across **8 services**, unblocked production deploys broken by an AWS Lambda/SQS concurrency change, and added a human approval gate before production.

#### Python Backend Developer · Making Science

Nov 2024 – Jun 2026

- Architected a **9-service** FastAPI backend behind APISIX with 5-tier rate limiting, handling up to **100 req/s**. A shared resilience library (circuit breaker, retry, bulkhead, DLQ) gives every service the same failure handling instead of each one reinventing it.
- Built one integration layer for **3 external providers** — Keepz payments, Didit identity verification, Google OAuth — so an outage at any of them degrades a single feature, not the core flow.
- Cut deploys from **~30 to ~5 minutes**: GitHub Actions detects which services changed and rebuilds only those.
- Set up Grafana + Loki across all 9 services, so logs from every service are searched in one place during an incident.
- Led delivery in a 2-person team: reviewed and merged **58+ PRs**, added RabbitMQ for async messaging and MinIO for file storage.

#### Backend Developer · Dealin

Oct 2023 – Jun 2026

- Took the product from **zero to production** as the sole developer: **25+ endpoints** serving up to **1,000 users** on Django 6, DRF, PostgreSQL, Celery and Redis.
- Shipped the full auth flow from day one: email verification, 2FA, password reset, JWT and Google OAuth.
- Moved email delivery out of the request cycle into a Celery + Redis queue, so a slow mail server no longer holds up API responses.
- Every push runs ruff, tests and a Docker build in GitHub Actions; the schema evolved through **16 migrations** with index tuning along the way.

PROJECTS

LangChain Text Analyzer

Classifies topics, scores sentiment and answers questions about a text, using retrieval over Milvus and Google Gemini.  
LangChain · Gemini · Milvus · FastAPI · SQLAlchemy · Docker

FastAPI WebScraper

Scrapes JavaScript-heavy pages at ~200 pages per 2 minutes and turns them into structured Markdown ready for RAG and LLM pipelines, on a cron schedule.  
FastAPI · nodriver · asyncio

Fitness Tracker API

REST API for workouts — exercises, plans, sessions and weight logs — fully covered with pytest.  
Django · DRF · PostgreSQL · Docker · pytest

OPEN SOURCE

herdr-profiles PR #4 · open

Added per-profile environment variables to Herdr's Chrome-style profiles, so each profile runs tools under its own account — for example Claude Code on a subscription in one and Vertex AI in another. Along the way, stopped a broken profiles.json from being silently overwritten, and added editing from the popup and Windows Terminal support under WSL.  
Rust · +405 / -39 · 36 tests · clippy clean

SKILLS

|                  |                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Backend          | Python, FastAPI, Django, DRF, SQLAlchemy, SQLAlchemy, Alembic, Celery, asyncio                                                     |
| Data & Messaging | PostgreSQL, Redis, RabbitMQ, Milvus, MinIO                                                                                         |
| AI               | RAG, LangChain, Google Gemini, Anthropic Claude API, LLM APIs, Embeddings                                                          |
| DevOps & Cloud   | Docker, GCP, AWS (EC2, AuroraDB, S3, Serverless, ElastiCache, Bedrock), GitHub Actions, CI/CD, APISIX, Nginx, Linux, Grafana, Loki |
| Tooling          | pytest, ruff, uv, Git, Swagger, ReDoc, nodriver, BeautifulSoup4, Claude Code, Copilot, Codex                                       |

EDUCATION & CERTIFICATIONS

Python Backend Development

AlgoUni · Feb — Sep 2023

Information Technology

Imedi College · May 2022 — Jan 2023

Complete Guide to Parallel and Concurrent Programming in Python; SQL Essential Training; LLM Foundations: Vector Databases for Caching and RAG

LinkedIn Learning