

LUKA ADAMIA

AI-NATIVE FULL-STACK DEVELOPER

A full-stack developer who ships the whole product: database, agents, payments, automations and deploy, with AI as the team.

Founder of ALLONE, an AI & software studio in Tbilisi with entities in Dubai and Brussels. Twenty-plus systems in production. I write the schema, the agent loop, the payment path and the cron job that keeps it honest, and I measure every claim. Everything below is live, and the links are there so you can check it yourself.

xracode.com	XRA · MY PRODUCT
themis.ge	LEGAL AI · PAYING USERS
travelplace-bf.vercel.app	TOURISM CRM
protools.ge	E-COMMERCE + ERP SYNC
luka.adamia@allonelabs.com	Contact
linkedin.com/in/luka-adamia	LINKEDIN
Tbilisi · UTC+4 · Remote	Location

Disclosure, because it is the point. An AI wrote this CV, designed it in my studio's type and grid, and sent it to you. I built the harness it runs in: the agent loop, the tool router, and the background browser that signs in and fills in forms without a human at the keyboard. Judge the document, then consider that it produced itself.

20^{PLUS}

SYSTEMS IN PRODUCTION. CLIENT AND OWN PRODUCT, STILL RUNNING.

4.8^{TIMES}

PIPELINE SPEEDUP. 393 S TO 82 S, FOUND BY PROFILING.

63^{TABLES}

ONE TENANT SCHEMA. SEVEN MIGRATIONS, ROW-LEVEL ISOLATION.

40^{TOOLS}

ONE ADMIN AGENT. EVERY WRITE CONFIRMED, SNAPSHOTTED AND UNDOABLE.

52^{WORKERS}

CONTENT ENGINE. POLLING EVERY TEN SECONDS, IDEMPOTENT RE-RUNS.

96.6^{FPS 4K}

OWN WEBGPU RENDERER. 7-8× THE BROWSER RENDERER IT REPLACED.

XRA

FOUNDER · SOLE ENGINEER
AGENTIC SITE CLONING · 2026

xracode.com

- **A chat that does the work instead of describing it.** A routing turn picks from a seven-tool library (`start_clone`, `job_status`, `compare_clone`, `update_site_text`, `redeploy_site` and more), runs it server-side and streams the result back. Ask for a clone and you get a deployed site.
- **The agent checks its own work.** A worker screenshots origin and clone at two viewports, and a vision model compares them and returns structured findings that the UI shows as a drag-wipe comparison.
- **393 s → 82 s.** Profiling showed the real cost was process teardown and verification, not fetching.
- Entitlement comes only from a server-side subscription read plus a daily reconcile, because the payment provider refused webhook-verification scope. The browser never grants a plan. RLS was tested adversarially: anonymous reads return `[]`.

Tourism CRM

ARCHITECT · LEAD ENGINEER
REPLACED A DECAYING PHP MONOLITH

travelplace-bf.vercel.app

- **63+ tables across seven migrations.** Multi-tenant from the schema up, bilingual, on EU-region Postgres, with operator workflows kept intact through the port.
- Auditing is one generic `plpgsql` trigger applied to 46 tables, with a viewer on top, instead of 46 hand-written triggers.
- An agentic operator chatbot with document ingestion over each tenant's own data.

SUPABASE

PLPGSQL

I18N

RAG

MULTI-TENANT

Intake → offer → contract → payment

DESIGNED AND BUILT END TO END
LIVE MONEY, REAL INVOICES

- One unbroken chain: a conversational intake bot, an LLM-drafted offer, human price approval, generated contract and invoice PDFs, email, in-chat e-signature and card capture.
- **Removed a class of hallucinations by splitting the prompt.** One agent was snapping answers to the nearest menu option (a client said "3 weeks" and it recorded "1–3 months"). I split it into a warm conversation pass and a temperature-0 extraction pass with a strict schema that returns null when something wasn't said. Audited quality went from 5.5 to 8.5.
- Built for provider failure: a primary and a secondary model, key rotation on 429 and 5xx errors, and a turn limit so a looping conversation always ends.

GEMINI / VERTEX

ANTHROPIC

STRUCTURED OUTPUT

PUPPETEER PDF

FLY.IO

Themis

GEORGIAN LEGAL AI
~20 PAYING ACCOUNTS

themis.ge

- Ask a legal question in Georgian and get an answer with inline citation markers that expand to the exact statute text. Grounding is the product, because an uncited legal answer is worse than none.

RAG

CITATION GROUNDING

VERTEX AI

GEORGIAN NLP

Equivalenza Georgia

ENGINEER

PERFUME RETAILER · STOREFRONT + AI

equivalenza.ge[chatbot demo](#)

- The storefront on Next.js and Supabase, Georgian first.
- A Georgian shopping assistant on Gemini that searches the live catalogue. Every turn is scrubbed of personal data, classified by intent and embedded, so the store can see what customers actually ask for.
- **An admin agent with 40 tools** (20 reads, 20 writes) so staff run the store by asking. Every destructive call waits for a confirm card, stores before-and-after snapshots so `undo_last` can reverse it, and counts against a daily quota per operator.

NEXT.JS

SUPABASE

GEMINI

EMBEDDINGS

TOOL CALLING

UNDO

Goga Photography

ENGINEER

WEDDING & EVENT PHOTOGRAPHER

gogaphotography.vercel.app

- **Booking to delivery in one site:** an availability calendar, a price calculator with add-ons and extra hours, and contracts signed online.
- Automated emails in Georgian, English and Russian carry each client from lead to consultation, contract, shoot, delivery and upsell, on a daily schedule.
- A 24/7 chatbot that quotes the studio's own published packages, and an admin where the photographer manages bookings, prices, contracts, automations and captions.
- Security-audited: sign-up closed, profiles locked, rate limits, login lockout and security headers.

VERCEL FUNCTIONS

SUPABASE

VERTEX GEMINI

E-SIGNATURE

CRON

Walk By

ENGINEER

FASHION E-COMMERCE

walkbystore.com

- A storefront built to convert on the phone first, with its own admin panel.
- That admin became the template later client stores are cloned from.

E-COMMERCE

ADMIN

MOBILE-FIRST

Giorgi Maisashvili

ENGINEER · DESIGNER
PHOTOGRAPHER PORTFOLIO

giorgimaisashvili.com

- Vite and TypeScript with no framework: a fixed still beside a wheel-driven stream of covers, smooth glide and horizontal-blind transitions.
- An admin on Supabase, with the site falling back to bundled data so it stays up even if the database pauses.

VITE

TYPESCRIPT

SUPABASE

MOTION

MACHINES THAT RUN WITHOUT ME

SHEET 05 / AUTOMATIONS

Background control kit

BUILT FOR MY OWN AGENTS
NODE · CDP · SWIFT · MACOS AX

- **Agents sign in, sign up and fill in forms on a hidden display**, driving the DOM over the Chrome DevTools Protocol rather than simulated clicks, so they never touch the user's screen.
- Verification codes are read from email, SMS and TOTP and written to 0600 files. Passwords go from the Keychain straight into the page and never appear in logs or command arguments.
- Mac apps and settings are driven through accessibility actions on a virtual display. Synthetic clicks are the last resort, and the kit says so when it falls back to them.

CDP

PLAYWRIGHT

SWIFT

ACCESSIBILITY API

KEYCHAIN

Content engine

RUNS THE STUDIO'S OWN CHANNELS

- A dispatcher of **52 worker modules** on a VPS under process management covers research, planning, copy, scheduling and publishing, over a 20-table multi-tenant schema with token budgets that pause instead of overspending.
- When the model account hit zero mid-run, I moved 46 workers onto a different execution path behind the same call surface, with a second provider as fallback. No worker code had to change.
- Approved and scheduled is the only state the autoposter acts on. Nothing reaches an audience until a human approves it.

NODE

PM2 · HETZNER

POSTGRES RLS

META & LINKEDIN APIS

Self-hosted mail stack

SMTP → STORE → WEBMAIL → CLIENT

- An SMTP server on port 25 with a dedicated IPv4 fans each recipient out over webhooks into a Postgres store. A webmail app serves twenty accounts with mailbox grants, and a native macOS client is written in Swift.
- A classifier forwards invoices and receipts to the accountant with the originals attached. It is loop-safe and has never fired on internal mail.

SMTP

DKIM · SPF · MX

FLY.IO

SWIFT / WKWEBVIEW

Watchers & uptime

LAUNCHD · CRON · PUSH ALERTS

- Background watchers for public procurement (the EU tenders API), inbound replies and fare prices. Each retries with backoff, keeps its state per consumer, and pushes to a phone.
- **22 uptime monitors**, including keyword checks that prove the data layer answers rather than just the web server, plus nightly backups that report to a dead-man's switch.
- A WhatsApp bridge exposed as an MCP server. Every message an agent writes is labelled as AI at the send path, so the label can't be forgotten.

LAUNCHD

UPTIME KUMA

RESTIC

BAILEYS

MCP

MONEY, PIXELS AND FRAMES

SHEET 06 / COMMERCE · 3D · VIDEO

Commerce

PAYMENTS · STOCK · ERP

protools.ge

- A tools retailer's store synced with their accounting ERP. The sync had been reading only 1,000 of **15,304 variants**; I rewrote it with paging and batched writes.
- A fashion label's shop with git as the CMS: the admin commits JSON through the GitHub Contents API, Vercel rebuilds, uploads are converted to four WebP sizes, and stock is tracked per size, with Mollie payments.

PAYPAL ORDERS V2

MOLLIE

GITHUB API

RESEND

VIVI

CODE-TO-VIDEO ENGINE
OWN WEBGPU RENDERER

- A typed document describes a video, and a swappable backend renders it. I replaced the browser renderer with a **native WebGPU backend** (compute shaders and storage buffers only) that renders **96.6 fps at 4K**, gated on SSIM against the reference.
- The real ceiling turned out to be the H.264 encode, so hardware encoding is what makes the GPU gain visible end to end.

WEBGPU WGL SKIA FFmpeg SSIM GATES

3D on the web

THREE.JS · BLENDER PYTHON

allonelabs.com/la99

- Scanned avatars rigged automatically with a 52-bone skeleton, posed at runtime with breathing, weight shift and cursor-driven gaze.
- Characters exported from Blender to GLB and shown in a three.js viewer with selective bloom on emissive meshes only.

THREE.JS GLB RIGGING WEBGL

01 LANGUAGES TypeScript (strict) · SQL & plpgsql · Python · Rust (Tauri) · Swift · WGSL · Bash	02 AGENTS & LLM Tool routing and execution loops · structured output · retrieval with citations · multi-provider fallback · MCP servers · adversarial output audits
03 WEB Next.js App Router · React 19 · Tailwind v4 · Astro · Remotion · three.js	04 DATA Postgres · Supabase · row-level security designed and verified · trigger-based auditing · object storage
05 INFRASTRUCTURE Vercel · Fly.io · Cloudflare Workers · Railway · VPS with PM2 and nginx · launchd · DNS, MX, SPF, DKIM	06 AUTOMATION Headless and background browsers over CDP · email/SMS/TOTP verification · watchers with retry and push · human-approval gates
07 PRACTICE Spec, then plan, then build · tests first where it pays · adversarial review before merge · prove it, don't assert it	

ALLONE

FOUNDER · CHIEF DIRECTOR, GROWTH
TBILISI · DUBAI · BRUSSELS · 2025 – PRESENT
allonelabs.com

Founded the studio and delivered about twenty client systems, then raised \$1.24M, hired fifteen people in one month and reached about \$50k in monthly revenue. I built the products on these sheets myself.

Stance geometry in language models

INDEPENDENT INTERPRETABILITY RESEARCH
2026

Modelled stance as a measurable direction in hidden-state space and tested it ($p = 0.83$ across 16 topics). The result replicated on two further architectures and held under causal injection. I also pre-registered a follow-up, refuted it, and published it that way.

TBC Bank

BUSINESS / FINANCIAL ANALYST, LENDING
2025

Credit and business analysis for loan decisions. Three raises in about six months, then left to build.

University of Buckingham

BUSINESS AND MANAGEMENT

Business, not computer science. Everything on these sheets is self-taught and was shipped to production for paying customers against deadlines.

Languages

SPOKEN

Georgian (native) · English (professional) · Russian (fluent)

THE OFFER, STATED PLAINLY

SHEET 09 / PROPOSITION

I will do what your team does. Pay me 70% of what that team costs you in total.

THE CLAIM

I built everything on these sheets: the products, the automations, the mail server, the renderer. I am one person operating a machine I put together myself, not a department.

THE TERMS

Take the fully loaded cost of the function you would otherwise staff, pay me seventy per cent of it and keep the rest. If that sounds like a boast, give me a scoped brief with a deadline and compare the result.

THE EVIDENCE

This document. An agent researched my record, wrote it, laid it out and delivered it. I designed and operate that pipeline.
