

Tornike Kalandadze

AI Product Engineer & Technical Lead

LLM systems · Voice agents · Applied ML · Guardrails

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3-stage

COURSE GENERATION PIPELINE

4

PEOPLE IN PRODUCT TEAM

\$800

AI/SECURITY HACKATHON WIN

01 PROFILE

AI product engineer and technical lead building complete user-facing systems around models—not model demos. I lead AI Academy's four-person product team and delivered Mia's Georgian voice-agent stack. My approach combines structured outputs, grounded context, explicit tool boundaries, cost and usage visibility, deterministic fallbacks, review gates, and human control over consequential actions.

02 EXPERIENCE

Lead Developer & Partner AI Academy

Apr 2026–Present
Launched AI product · four-person team

- Lead the product and engineering of a Georgian-native learning platform that turns a syllabus into structured lessons, quizzes, and a grounded Socratic tutor.
- Designed a three-stage Gemini generation pipeline, Claude streaming tutor, Zod-validated structured outputs, review gates, usage/cost logs, and abortable cleanup.
- Own architecture, task direction, code review, deployment, and product decisions through public launch and advertising rollout.

AI & Mobile Engineer Mia · client work

2026
Signed Android release

- Built the Georgian voice loop across on-device wake-word inference, Google Chirp 2 speech recognition, OpenAI tool calling, sentence-level SSE streaming, and ElevenLabs speech.
- Integrated real mobile actions—alarms, timers, weather, music, calculations, and Georgian/Russian/English interpretation—with background-safe playback fallbacks.

Independent Applied-AI Engineer Selected prototypes & hackathon work

2026
Local ML, explainable scoring, human gates

- Applied IsolationForest anomaly scoring in Sentinel with a deterministic baseline and rule-based fallback; designed every high score to wait for human judgment.
- Built ShieldMesh solo and won the VibeCoding From 0 hackathon with an offline-first threat-intelligence system combining on-device detection, mesh relay, and Solana verification.

04 OPERATING STRENGTHS

- Choose models per task and keep provider boundaries replaceable.
- Validate and review generated data before persistence.
- Design latency, cost, failure, and human-control paths with the happy path.

05 TECHNICAL SKILLS

MODELS & PROVIDERS

Anthropic Claude · Google Gemini · OpenAI tool calling · Google Speech · ElevenLabs

LLM ENGINEERING

Structured outputs · Grounding · Prompt hygiene · Review gates · Usage/cost tracking

APPLIED ML & VOICE

ONNX inference · IsolationForest · STT/TTS · Streaming · Feature engineering

PRODUCT STACK

TypeScript · Python · Next.js · React Native · Supabase · Zod · Docker

06 EDUCATION & CREDENTIALS

IT STEP ACADEMY · 2016–2018

Software-development studies with course certificates in PHP, HTML/CSS, JavaScript, databases, and C#.

07 LANGUAGES

Georgian — native · English — C1 · Russian — B1/B2

03 SELECTED ENGINEERING WORK

AI Academy Lead developer & partner

github.com/stariik/ai-academy

Georgian-native platform that converts source material into coherent lessons, quizzes, spaced review, and grounded tutoring.

- Gemini parses and expands syllabi; Claude streams lesson-grounded tutoring and grades quizzes behind a provider abstraction.
- Zod validates every model boundary; malformed output retries, generated lessons pass a review gate, and token usage/cost is logged per call.

Claude · Gemini · Next.js · Zod · Supabase

Mia Client work · voice agent

github.com/stariik/voice-ai

Android-first Georgian assistant connecting local wake-word inference to cloud speech, tool use, and natural voice output.

- Google Chirp 2 transcription → OpenAI tool calling and streamed response → ElevenLabs speech, with sentence-level delivery over SSE.
- Wake word stays on-device through ONNX; tools perform alarms, timers, weather, music, calculations, and two-way interpretation.

OpenAI · Google Chirp 2 · ElevenLabs · ONNX · React Native

Worldwide remote · employment, contract, or freelance

Portfolio evidence and source code available through the links above.