

Vitalii Babynin

Software Engineer & AI Architect

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SUMMARY

AI-native full-stack engineer with a decade building software (professionally since 2015), the last two years focused on building LLM-powered products end-to-end as sole senior technical lead. I design and operate systems that turn **voice, text and documents into structured, auditable data** — OCR/extraction pipelines, voice/chat agents, semantic search, multi-tenant SaaS and offline-first mobile — built to real governance standards (GDPR, HIPAA-architected, EU data residency, audit logging, privacy-first/local LLMs). Comfortable from architecture through deployment to operations across the Azure and Convex/Vercel stacks. UK-educated (Winchester College), native English.

CORE COMPETENCIES

- **AI / LLM engineering:** document extraction & OCR → structured data (Azure Document Intelligence, Claude Vision, langextract); voice agents (Retell AI); semantic/vector search & RAG (Azure AI Search, embeddings, ChromaDB); multi-model orchestration (Claude · GPT · Gemini); local/on-prem LLMs for privacy (LM Studio, Hermes, ComfyUI); custom MCP servers.
- **Full-stack:** Next.js / React / React Native (Expo), TypeScript, Tailwind; Convex, Supabase, FastAPI, Node.js, Prisma, Azure SQL, DuckDB; Python.
- **Cloud & integration:** Azure (App Service, Entra ID SSO, Graph API + webhooks, AI Search, Document Intelligence, Foundry/GPT-4o), GCloud, Vercel, RunPod; Stripe, Clerk, Resend.
- **Governance:** HIPAA & GDPR architectures, multi-tenant isolation, encryption, audit logging, EU-only residency, secure credential handling.

SELECTED PROJECTS

Robot Army HQ — multi-tenant AI-receptionist SaaS. Retell voice + chat agent capturing booking requests, auto-generated per-prospect demo sites, Stripe billing, Clerk auth, real server-side multi-tenant isolation; architected toward HIPAA/GDPR. Next.js/React 19, Convex, Anthropic SDK.

FastPermits (*co-founded*) — AI building-permit compliance: parses permits and architectural floor plans (rooms, windows, dimensions), checks them against scraped building codes, flags violations. Multi-model document-parsing pipelines.

IPC platform — working prototypes on an EU Azure tenant: an expert-management system (Azure DI OCR + GPT-4o extraction, semantic CV search via Azure AI Search, ToR→expert matching, SharePoint read/write via Graph + webhooks, Entra SSO); a governed tender pipeline (approval workflow, append-only audit log, GDPR redaction, Azure OpenAI Foundry); and a Claude-based proposal-writing cockpit (15-step gated workflow, QC, DOCX/Excel export).

Document Sorter — Claude Vision tool that auto-organizes piles of messy scanned documents: extraction, dedup, normalization, cross-batch reconciliation, confidence-scored matching.

Shukai (*in production, shukai.eu*) — treasure-hunt event platform: live web app plus an in-development React Native/Expo mobile app with AR and offline-first sync (PowerSync + Supabase), role-based access, admin approval workflows, i18n — for events in poor-connectivity areas.

Leads Database — 35-step outbound data pipeline over 1.5B+ records (DuckDB) with multi-model AI orchestration (GPT + Gemini) under cost constraints.

Financier (*in production, financier.site*) — multi-exchange/account finance dashboard (CCXT, Convex, encrypted credentials, time-series snapshots, 20+ ADRs).

Organizer — privacy-first Outlook/file CLI using Microsoft Graph API with a local LLM (no cloud), DPAPI-secured, read-only audits before mutations.

PROFESSIONAL EXPERIENCE

Chirayou GmbH — Senior Software Engineer & Head of AI Development May 2026 – present
Königswinter, Germany (remote, reports to CTO) · Health-tech
Leads AI-assisted development across the company's digital products (app, backend, website), implements AI functionality into the product, and builds marketing-automation and AI-driven internal workflows that cut manual work. (Internal specifics under NDA.)

Robot Army — Founder & Technical Lead Sep 2024 – present
Independent AI software practice · Mönchengladbach, Germany (remote)
Architects, builds, deploys and operates production AI products end-to-end as sole senior technical lead: voice/chat agents, document-extraction pipelines, multi-tenant SaaS, semantic search, offline-first mobile. Next.js/React/React Native, TypeScript, Convex, Clerk, Stripe, Azure & GCloud, Python; Claude/GPT/Gemini + local models. (See Selected Projects.)

Freelance — Shopify Web Developer Mar 2021 – Sep 2024
Düsseldorf / Mönchengladbach, Germany (remote)
Built custom Shopify storefronts with payments, tracking, fulfilment and automated chat/phone support; ran Facebook-ad and Klaviyo email campaigns. End-to-end DTC operator (sourcing → acquisition → retention).

SmallDevTeam — Mobile Application Developer Sep 2016 – Jan 2021
Kyiv, Ukraine
Built the WeightWatching diet app and several puzzle/logic games (EN/RU); Facebook Graph API leaderboards; in-app currency + ad monetization. C#, Unity, React.js, Node.js, Cordova/PhoneGap.

Earlier roles 2015 – 2021
SHR Germany GmbH — Full Stack Developer (2021): Prestashop/WooCommerce, SCSS redesign, custom modules. · **Soulestate.io** — Blockchain Developer (2017–2018): Ethereum smart contract for real-estate tokenization. · **Asymmetric Fund** — Accounting Technician (2016–2018): automated investor-fund accounting in Excel VBA. · **Soul Apartments** — General Manager (2016–2017): ran a 5-apartment Airbnb operation + booking system. · **Altima Web Systems** — PHP/SQL Developer (2015): searchable book directory with auth — first professional dev role.

EDUCATION

- **BSc, Computer Science** — State University of Infrastructure and Technology, Kyiv, Ukraine (2014–2018)
- Economics (MA, first year) — The University of Edinburgh, UK (2013–2014); Economics (BSc, first year) — Queen Mary University of London, UK (2012–2013)
- **Winchester College**, Hampshire, UK — independent boarding school, High School Diploma (2007–2012)

ASSESSMENTS & CREDENTIALS

Verified skill assessments (TestGorilla, 2026, valid to 2028): Communication **95th percentile** · Problem Solving **89th percentile** · Time Management **85th percentile**. LinkedIn skill assessment: CSS (passed). Capability is otherwise evidenced by the shipped production systems above.

SKILLS

Languages: TypeScript/JavaScript, Python, C#, PHP, SQL, Solidity, VBA, HTML/CSS/SASS.
Frontend: Next.js, React, React Native/Expo, Tailwind, shadcn/ui, Three.js, Recharts.
Backend / data: Convex, Supabase, PowerSync, FastAPI, Node.js, Prisma, Azure SQL, DuckDB.
AI / ML: Claude (Vision), GPT, Gemini; Azure Document Intelligence, Azure AI Search, embeddings/RAG, ChromaDB; Retell voice agents; local LLMs (LM Studio, Hermes, ComfyUI); MCP servers; Flux/Stable Diffusion, RunPod.
Cloud / DevOps: Azure (App Service, Entra ID, Graph API, AI Search, Document Intelligence, Foundry), GCloud, Vercel, RunPod, Hyper-V, Git, EAS.
Auth / payments / integrations: Clerk, Entra ID/MSAL, Stripe, Resend, CCXT, Apify, Firecrawl, Serper.
Compliance: HIPAA, GDPR, multi-tenant isolation, audit logging, EU residency, privacy-first/local processing.

LANGUAGES

English (native) · Ukrainian (native) · Russian (native) · German (A2) · French (A1).