David Koyrakh

Coral Springs, Fl | (612) 965-7117 | david.koyrakh@gmail.com | linkedin.com/in/davidkoyrakh

---

Full-Stack / Backend / AI Engineer

Experienced builder and operator of production services in Python/FastAPI, Next.js, and Postgres. Shipped customer-facing platforms with CI/CD, observability, and LLM integrations at 100k+ events/day scale. Strong focus on reliability and operational ownership.

Experience

Senior Backend / AI Engineer (Return Contract) | Reco Social
Dec 2025 - Jan 2026

- Re-engaged for a targeted production hardening and observability sprint post-scale.
- Led the AI Video Processor as it scaled past 100k users and 2,000+ video uploads per day.
- Added Langfuse and Datadog observability for service health and cost/latency bottlenecks; built monitors reducing production MTTR by 80%+.

Founding Full-Stack Engineer (Contract) | Callpurity
Aug 2024 - Jun 2025

Selected outcomes: 100k+ calls/day | 99%+ accuracy | 10x+ throughput

- Took CID Status Check from concept to production: Python multi-service platform validating caller-ID reputation in real time.
- Engineered an OCR pipeline to extract structured call data from screenshots; built scheduled processing handling 100k+ call records/day at 99%+ accuracy.
- Designed VoIP dial-plans and API workflows, increasing request throughput 10x+.
- Built structured metrics and logging to classify failure modes, reducing repeat incidents by 30%.
- Implemented CI/CD and secure deployments (Docker, Vault, GitHub Actions) across 5 FastAPI microservices.
- Built Supabase-backed realtime event subscriptions (Postgres + Realtime) for operational workflows.
- Initiated React/Next.js customer dashboard (repo setup, deploy, documentation).

Founding Full-Stack Engineer (Contract) | Reco Social
Jun 2024 - Dec 2024

- Shipped full-stack features across Next.js (React) frontend, Strapi (Node.js) API backend, and Google Cloud Functions.
- Laid groundwork for product ETL and enrichment pipelines that scaled to ingest over 5 million products.

Consulting Engineer (Contract) | Radwave Technologies
Mar 2024 - Aug 2024

- Built an internal application to validate the hardware requirements traceability matrix (RTM), cutting verification time by 99%+.
- Consolidated platform documentation into a unified customer manual (setup, quick start, troubleshooting).

Freelance Full-Stack Developer | Various Clients
May 2023 - Jun 2024

- Delivered full-stack web applications for multiple clients, including admin dashboards and production APIs.
- Built early AI-powered automation tools, including large-scale website analysis and batch document extraction pipelines, reducing manual effort by over 80%.
- Owned projects end-to-end: requirements gathering, system design, implementation, and client handoff.

David Koyrakh

Client Onboarding (Contract) | Chabad Concierge

Apr 2023 - Aug 2023

- Increased customer acquisition rate by 1200% by introducing a structured onboarding process.
- Reduced time-to-close from 2 weeks to 2.5 days.

Research Intern | Neuromodulation Research Center (UMN)

Fall 2016 - Winter 2017

- Supported Deep Brain Stimulation (DBS) research through clinical observation and data review.

Project

Personal Reach | personalreach.ai

Jul 2025 - Jan 2026

- Shipped a full-stack agentic platform for job seekers: ingests jobs via ETL, matches jobs to users, and generates personalized outreach with scheduled sending (Google OAuth + Gmail API).
- Built the job matching pipeline using OpenAI Agents SDK with hybrid retrieval and scoring; ~6,000 jobs indexed (250 new/month).
- Production stack: Next.js/React + TypeScript, FastAPI (Python) microservices, Supabase (Postgres/Auth/Realtime/Edge), OpenAI API, Vercel/Render, Stripe.
- Dockerized services, trunk-based CI/CD, isolated staging/prod releases, and reproducible local setup.

Education

M.S. in Data Science, Bellevue University — 2024 - 2025

- Omega Nu Lambda Honor Society (4.0 GPA)

University of Minnesota, Twin Cities, MN | Neuroscience Coursework — 2017 - 2018

Skills

Languages	Python, TypeScript, JavaScript, SQL, Bash
Backend	FastAPI, Node.js, Strapi, REST APIs, OAuth, authentication/authorization, async systems
Frontend	React, Next.js, Tailwind CSS
AI/LLM	OpenAI API, OpenAI Agents SDK, Langfuse, LangSmith, GenAI
Data	ETL pipelines, Pandas, PyTorch, computer vision, ML pipelines
Infra/DevOps	Docker, GitHub Actions, GCP, Terraform, Vault, Linux
Data/Platforms	Supabase (Postgres/Auth/Realtime/Edge Functions), Meilisearch, Stripe, Vercel, Render
Observability	Datadog, tracing/metrics/logging, alerting