

Founding engineer and product founder building production systems across healthcare AI, real-time voice and financial data. At Patientdesk.ai (YC W26), shipped multi-region voice-agent infrastructure, dental-practice integrations and operational tooling. Founded ImpliedOptions, a technically intensive options intelligence platform spanning real-time market-data ingestion, quantitative analytics, web and mobile products. Background in economics, data science and applied ML research.

EXPERIENCE

Oct 2025 — Present

San Francisco

Founding Engineer

PATIENTDESK.AI · Y COMBINATOR W26

- Built the multi-region platform behind Patientdesk's AI front desk: a TypeScript/Next.js control plane and Python/FastAPI voice runtime powering US and Australian deployments on Supabase/Postgres, Vercel and GCP.
- Shipped the core product end to end — AI agents that answer calls, book and reschedule appointments, verify insurance and collect payments — integrated with five practice-management systems (OpenDental, CareStack, CorePractice, Dental4Windows, NexHealth).
- Automated voice-agent deployment across ElevenLabs, LiveKit, Vapi and Retell, cutting clinic onboarding to self-serve, including a Stripe-billed booking widget and multi-location administration.
- Owned reliability and compliance for healthcare workloads: full call observability and analytics, tenant isolation, encryption, row-level security and rate limiting.

Oct 2025 — Present

Web · iOS · Android

Founder & Engineer

IMPLIEDOPTIONS.COM

- Solo-built and launched a full options intelligence platform — live institutional flow, Black-Scholes P&L modeling and historical backtesting — across web, iOS and Android.
- Engineered the real-time market-data backbone: Python services that ingest the options tape, classify blocks, sweeps and multi-leg strategies, enrich them with Greeks and open interest, and persist history in partitioned PostgreSQL for fast large-window queries.
- Built the quantitative analytics layer — IV rank and percentile, gamma exposure, expected moves, max pain — exposed through streaming APIs, push alerts and subscriptions serving web and mobile clients.

PATIENTDESK LABS

2026 — Present

Applied AI, Voice Models
& Data Infrastructure

- Built and launched **VoiceData** (joinvoicedata.com), a live multilingual voice-data marketplace covering the full loop: contributor onboarding, browser, mobile and LiveKit conversation recording, automated QA with trust scoring, human review and payouts.
- Trained and served custom voice models: synthetic dental-dialog generation, Gemma fine-tuning with LoRA serving and PersonaPlex training adapters using PyTorch, Transformers, TRL and PEFT.
- Created a production-weighted dental voice-agent benchmark judging empathy, clinical safety, accuracy and tone alongside cost and latency, used to compare models for deployment.

RESEARCH & POLICY

Sep 2024 — Mar 2026

Espoo, Finland

Research Assistant

AALTO UNIVERSITY

- Built LLM pipelines for synthetic survey experiments and RAG systems over 90,000+ page corpora for medical-technology research; presented findings to faculty and 10+ doctoral researchers.
- Developed web crawlers and classification pipelines tracking medical-technology developments; modeled energy-policy effects with econometric and graph-based analysis.

Jul 2024 — Oct 2024

London / Brussels

EPICENTER Research Intern

INSTITUTE OF ECONOMIC AFFAIRS

- Produced EU policy research and briefings for 12 member think tanks, tracking European Parliament and Commission agendas; turned findings into visual explainers.

EDUCATION

2023 — 2026

Espoo, Finland

Aalto University — B.Sc. in Economics, Minor in Data Science

Grade average 3.9 / 5.0 · Econometrics, Machine Learning, Probability & Statistics, Game Theory, Investments, Artificial Intelligence

SKILLS

PRODUCT

TypeScript, JavaScript, Python, SQL, React, Next.js, Flutter

BACKEND

FastAPI, PostgreSQL, Supabase, streaming APIs, Docker, GCP, Vercel

ML & VOICE

PyTorch, Transformers, TRL, PEFT, RAG, fine-tuning, model evaluation, LiveKit, ElevenLabs, Vapi, Retell

QUANTITATIVE

Pandas, NumPy, options analytics, econometrics, data visualization

LANGUAGES

Turkish (native), English (C1–C2), Finnish (elementary)