
PORTFOLIO, OCTOBER 2026

Ersapta Aristo

Full-Stack Software Engineer

Web and mobile products, data pipelines, payments, and AI integrations with OpenAI and Gemini. Remote from Indonesia (GMT+7).

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Hi, I'm Ersapta.

I'm a full-stack software engineer with over 5 years of professional experience in web and mobile products, data pipelines, and payments. I have taken products from the first commit to the app stores, built reliable data pipelines, and integrated payments with Authorize.Net, Google Play Billing, and Midtrans.

24,000+

pipeline runs at a 99.98% success rate in ten days, on the AlwaysLegit platform

3,000+

automated Deno tests covering that platform

178

countries where the HyePair app went to production on Google Play

Location

Bengkayang, West Kalimantan, Indonesia (GMT+7)

Working hours

Remote; I can work US Eastern (EST) or Pacific (PST) hours

Contact

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Where I have worked

Apr 2026 – Present	AlwaysLegit, Inc. , United States	Full Stack Developer (Upwork contract, remote)
Aug 2026 – Present	Player One Labs , France	AI and Full-Stack Developer (Upwork contract, remote)
Jul 2026 – Present	HyePair LLC , United States	Full Stack Developer, mobile dating app (contract, remote)
Apr 2026	PartyDepot LLC , United States	Automation Developer, Shopify store (contract, remote)
Nov 2025 – Present	CoupleSwap LLC , United States	Full Stack Developer, dating platform, web and mobile (contract, remote)
Dec 2023 – Jan 2025	Software agency , United States	Full Stack Developer (freelance, remote)
Nov 2022 – Mar 2024	Hacktiv8 , Jakarta, Indonesia	Full Stack JavaScript Instructor, then Data Science Instructor
Jan 2023 – Jun 2023	Second Car Marketplace , Jakarta, Indonesia	Full Stack Developer (freelance, remote)
Jun 2021 – Oct 2022	Monstyr Pte. Ltd. , Singapore	Junior Software Engineer (full time, remote)
May 2019 – Mar 2020	PT. Multi Data Sistem , Jakarta, Indonesia	Project Manager (full time, hybrid)

What I work with

FRONTEND AND MOBILE

React Next.js (App Router) TypeScript JavaScript Vue

Tailwind CSS Vite TanStack Query TanStack Router TanStack Table

Zustand Zod Storybook React Native Expo PWA

DATABASES

PostgreSQL Row-level security Supabase Drizzle Prisma MongoDB

Redis Neo4j

PAYMENTS

Authorize.Net Google Play Billing Midtrans

BACKEND AND APIS

Node.js NestJS Express FastAPI REST APIs WebSocket Webhooks

Deno edge functions

AI AND LLM

OpenAI API Gemini API Structured outputs RAG Embeddings

Vector search Reranking n8n

DELIVERY AND TESTING

AWS (EC2, S3) Docker GitHub Actions Sentry Jest Vitest

Playwright



Client work

Screenshots of client systems are blurred in the image itself, so no client data can be read from this file.

Market-data platform and admin console

Full Stack Developer, Upwork contract, Apr 2026 – Present

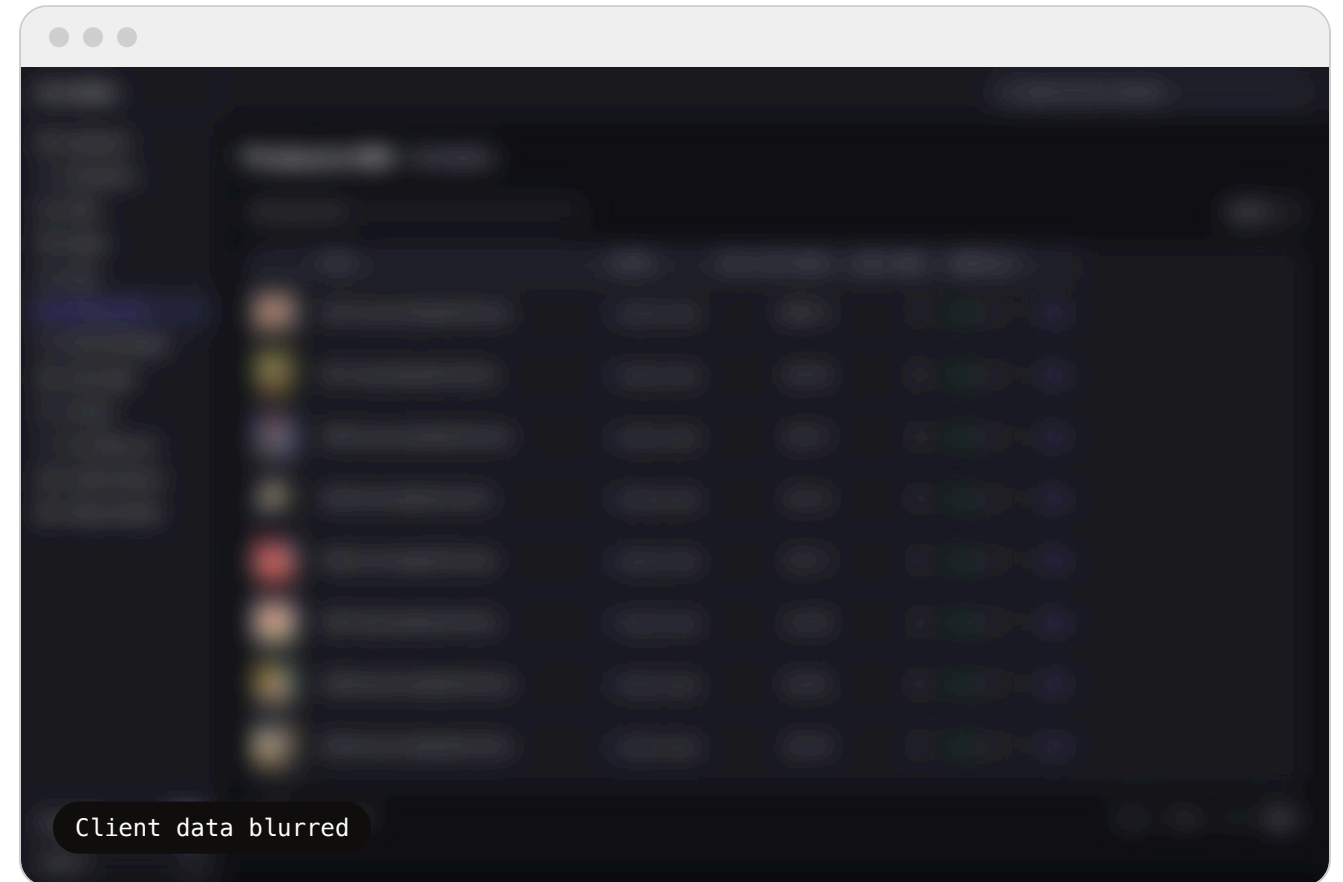
Built three systems behind AlwaysLegit's upcoming exchange for graded trading cards: the market-data platform that values each card and grade it tracks, the operators' admin console, and the buyers' sourcing app.

RESULTS

- Sustained 24,000+ pipeline runs at a 99.98% success rate in ten days.
- Engineered the Supabase backend across two client repositories, with over 50 Deno edge functions, including functions that call OpenAI and Gemini with JSON schemas.
- Built a scheduler that gives every card a refresh cadence for each sales source from its recent sales per day.
- Contained vendor spend in the market-data pipeline: responses are stored once and re-read, and a claim-first queue stops a crash or a retry from double-spending.
- Covered the platform with over 3,000 automated Deno tests.

STACK

React TypeScript Vite TanStack Router Zustand Supabase
PostgreSQL Deno OpenAI Gemini



Buyers' app and photo redactor

Full Stack Developer, Upwork contract, Apr 2026 – Present

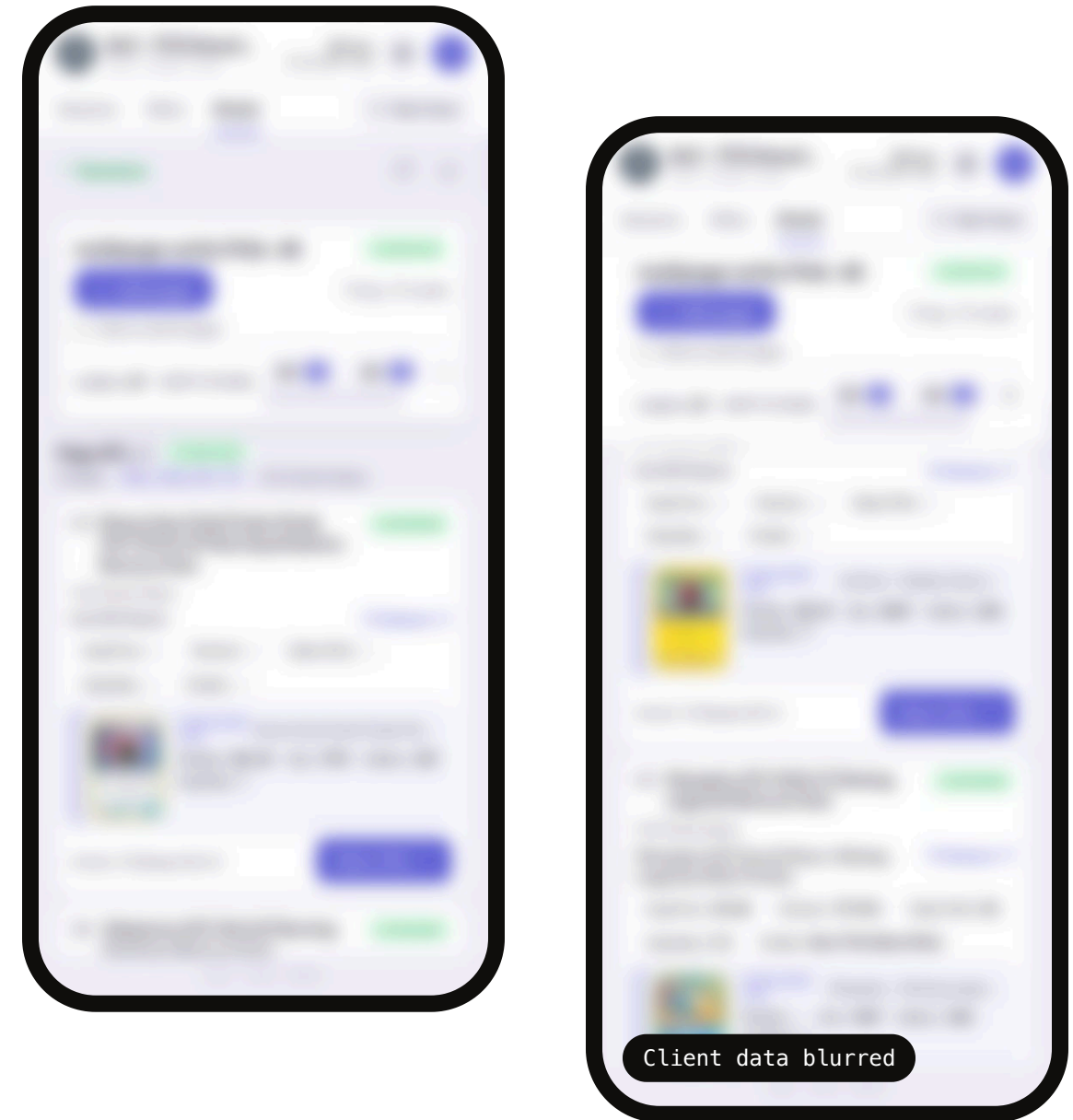
Built four generations of the buyers' sourcing app as an installable phone web app: it prices each item from market data and records the buyer's offer.

WHAT I BUILT

- Identifies a graded card from its cert number, and a sealed box from a photo that OpenAI ranks against the product catalog.
- Identifies the cards on a photographed binder page with Gemini.
- Made the early generations' barcode reader hold up on hard photos: the native BarcodeDetector first, ZBar in WebAssembly inside a Web Worker as the fallback, and an IndexedDB scan queue that survives a refresh.
- Built a slab-photo redactor that hides the barcode and cert number, and holds a copy for review unless barcode decoding and OCR can no longer read it; no barcode stayed readable across a 377-photo batch.

STACK

React Vite PWA Web Workers WebAssembly IndexedDB OpenAI
 Gemini ZBar Tesseract OCR



Multi-brand content system

AI and Full-Stack Developer, Upwork contract, Aug 2026 – Present

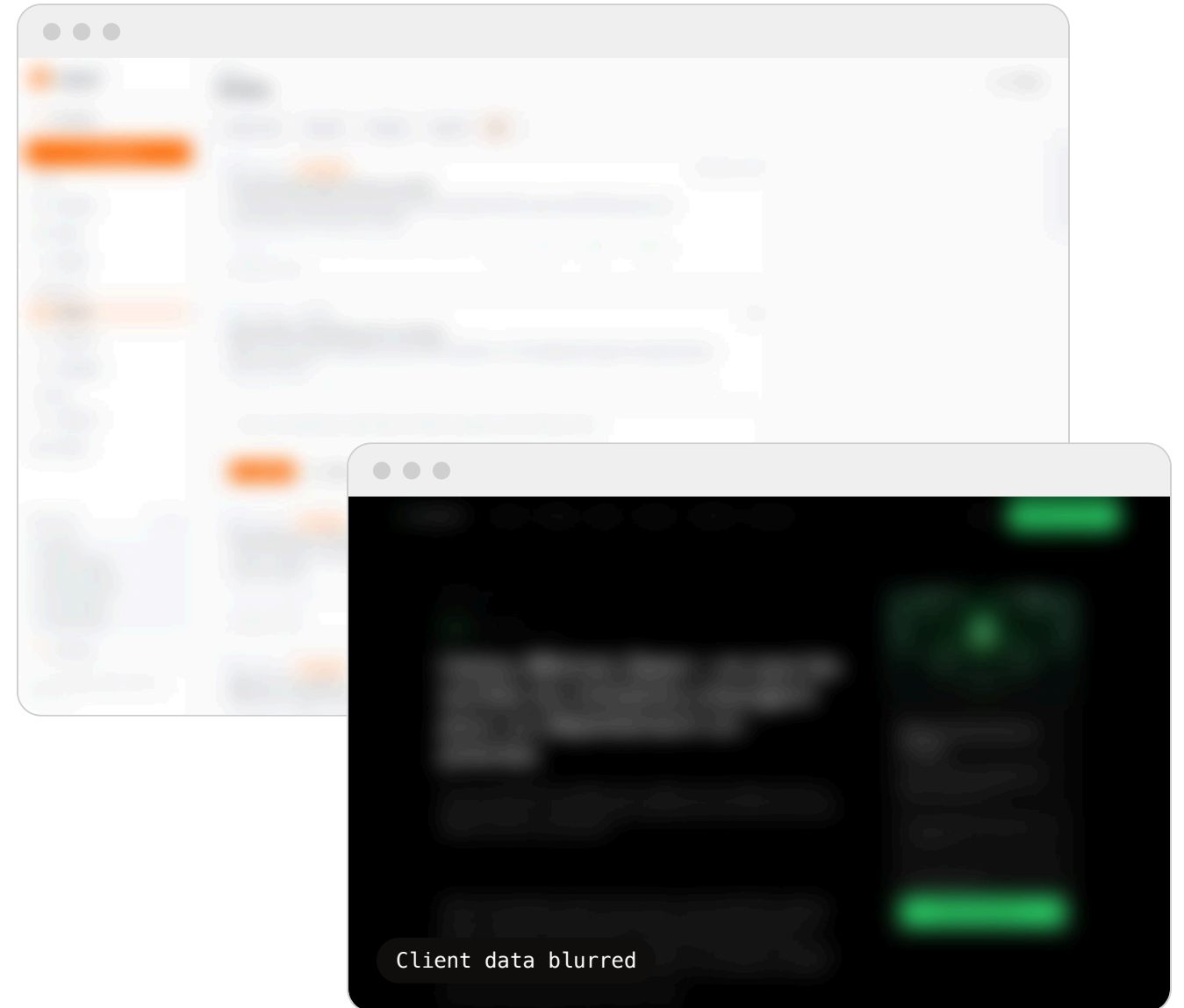
An automated website content system for the client's 10-brand portfolio: AI writing sessions draft each article, and a nine-check quality gate holds anything back until it passes.

WHAT I DID

- Made one Next.js app serve the operator cockpit and the brand sites, so a new brand is a config variable, not a new project.
- Added three SEO checks to the quality gate, plus a runner panel with job labels and a usage-limit pause.
- Set up agents that execute from a written specification; nothing publishes until it passes the quality gate.
- Made approved content publish without a redeploy, with a person releasing each piece.
- The cockpit and nine brand sites run from that one deployment on the client's Vercel, as noindex previews (October 2026).

STACK

Next.js Vercel FastAPI PostgreSQL Python pnpm workspaces



Mobile dating app, admin console and API

Full Stack Developer, contract, Jul 2026 – Present

I developed the NestJS API, the Expo and React Native app, the React admin console, and the landing page.

WHAT I DID

- Took the app through Google Play review to production in 178 countries.
- Google Play Billing subscriptions: the server confirms each purchase with Google before granting the tier.
- Plan tiers limit likes, waves and new chats, with the chat quota counted over a rolling 30 days.
- Full photo galleries open only after two members match.
- An account deletion page, a child safety standards page, and a daily job that purges deleted accounts after 30 days.

STACK

NestJS

Expo

React Native

TanStack Query

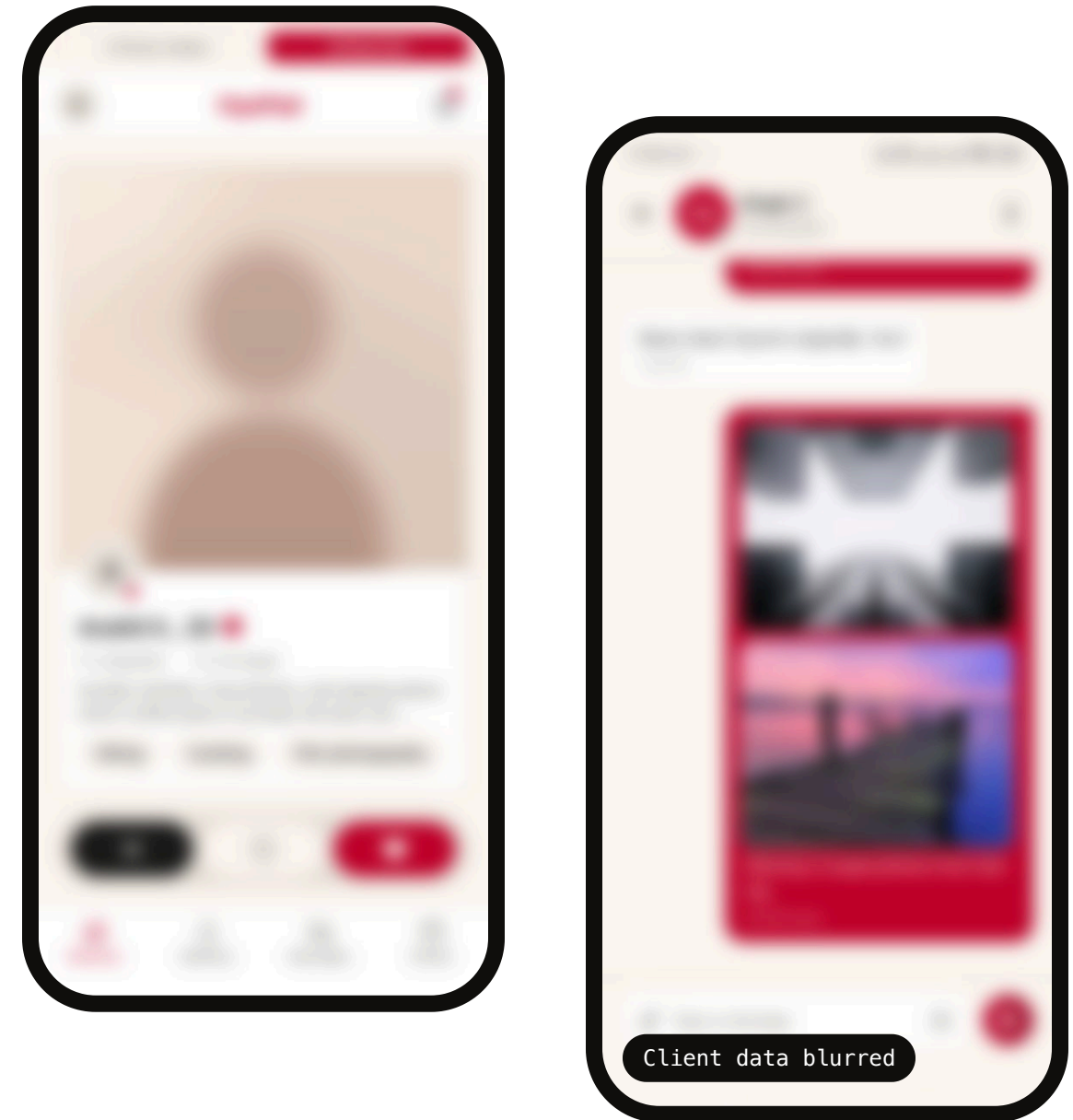
Zustand

Zod

React

TanStack Table

Google Play Billing



ERP for mortgage files and bank documents

ERP and n8n automation, monthly retainer

An internal ERP for a property developer: home buyers' mortgage files, document checklists and bank paperwork, connected to the client's Google Drive through n8n.

WHAT IT DOES

- The ERP renders 13 of the letters in a Bank Kalbar submission itself.
- n8n assigns the four letter numbers when the house order letter is issued, and regenerating a document keeps them.
- n8n workflows generate other bank documents and save them to Google Drive in a folder for each buyer and bank.
- A lead form with its own link for each sales agent, so each lead is recorded under that agent.

STACK

Next.js

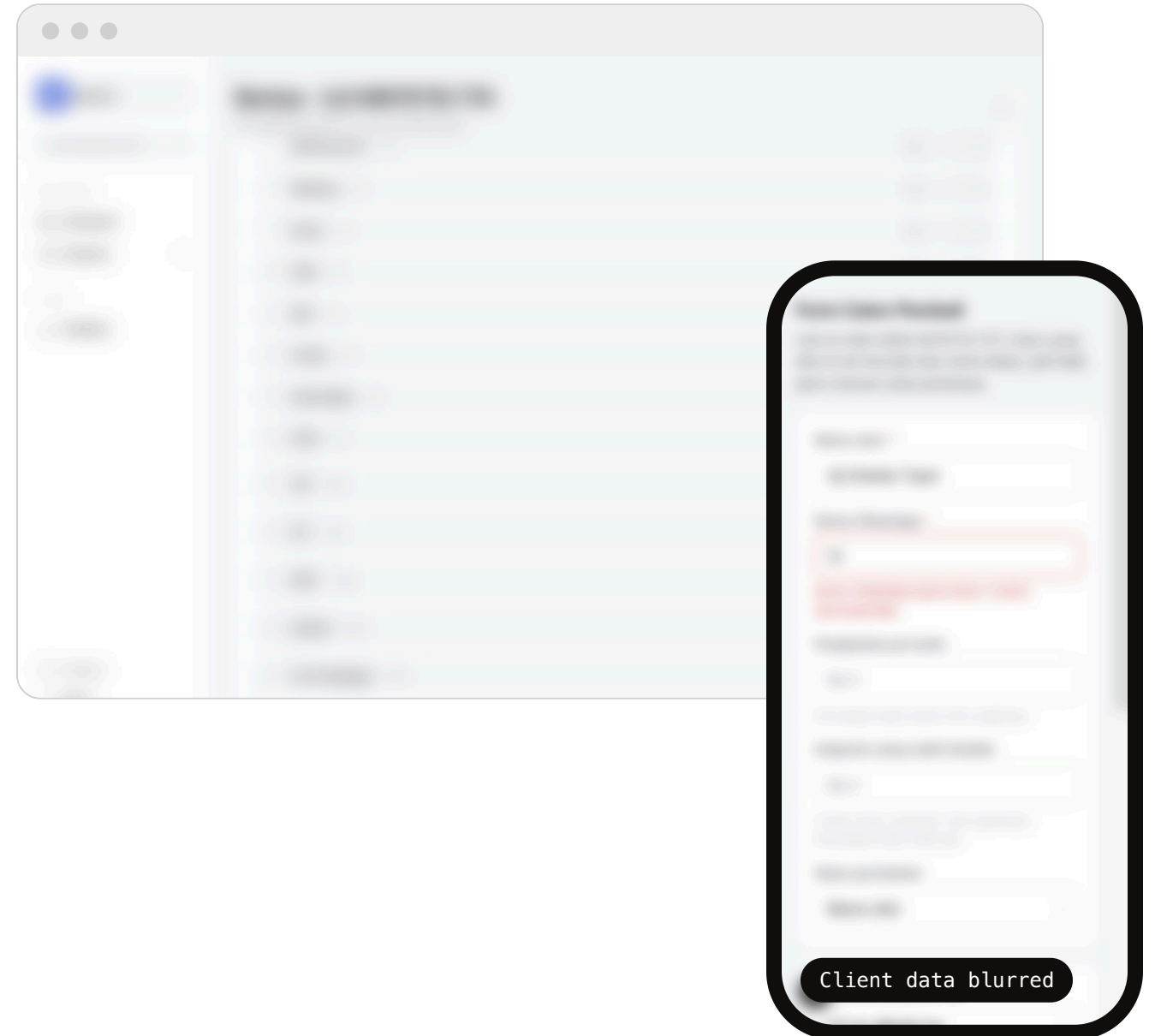
PostgreSQL

Drizzle

n8n

Google Drive

Vercel



More client work

PartyDepot LLC

United States, Shopify store · Apr 2026

Built an n8n webhook that suggests products for an event from its name, description and headcount, using embeddings, vector search and reranking; a guardrail corrects any suggestion that is not in stock, at about USD 0.001 to 0.003 per request.

Software agency

United States · Dec 2023 – Jan 2025

Rebuilt an OpenAI chatbot with retrieval-augmented generation; correct answers on a 20-question test set rose from 8 to 17. Built the Next.js 14 frontend of an AI character chat platform.

Second Car Marketplace

Jakarta, Indonesia · Jan 2023 – Jun 2023

Designed the UI in Figma and the system architecture, then built the React Native app and backend, with Midtrans payments by virtual account and QRIS, through to its launch on Google Play.

Monstyr Pte. Ltd.

Singapore · Jun 2021 – Oct 2022

Cut long-running PostgreSQL queries to under one second, and kept the React Native app light with a map that loads only the pins in the visible bounds plus a small margin.

Lead intake in n8n

Own project, published on my Upwork portfolio

A lead intake pipeline that keeps one row per lead, even when two forms land at the same moment.

RESULTS

- Duplicates are caught in 12 to 17 ms, against 1.4 to 4.6 seconds for a new lead that calls the model, with a rule-based fallback.

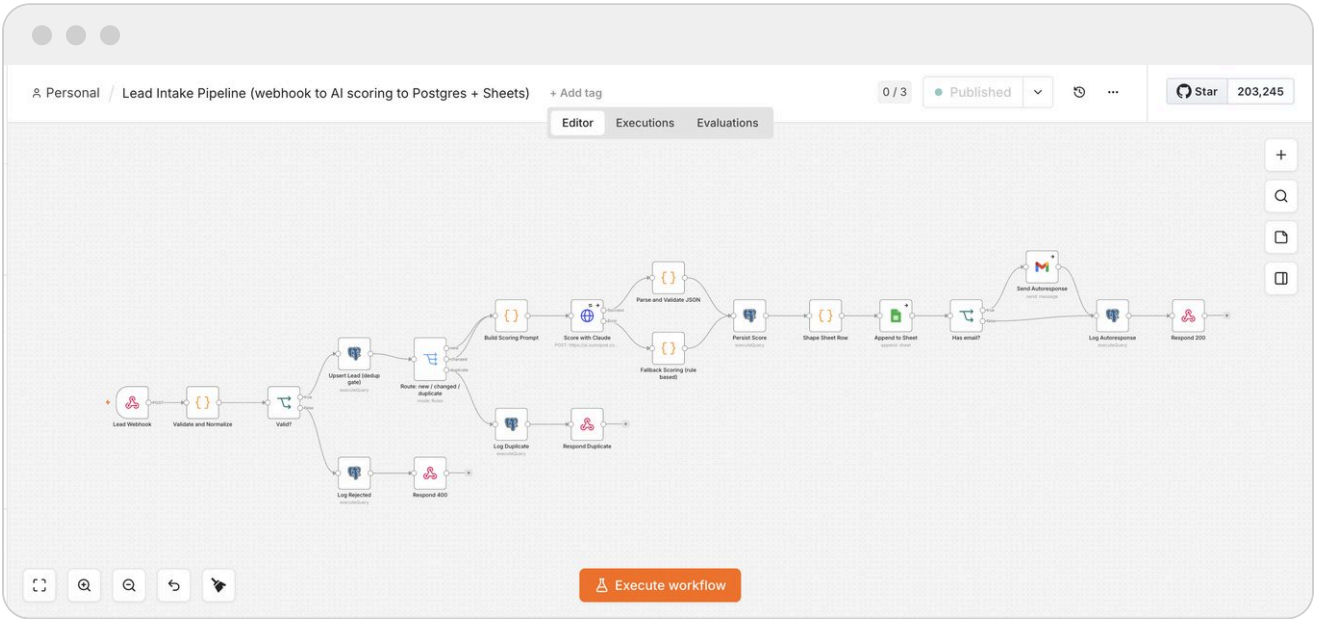
STACK

n8n

Webhooks

PostgreSQL

Google Sheets





THANK YOU

Let's talk.

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