Jack Petersen

Full-Stack Engineer · Founder, Mama Dog LLC

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Full-stack engineer who designs, ships, and runs commercial software end to end. Took two apps through Shopify App Store review to live, paying listings, and operates a sports analytics platform with a subscription tier, Discord bots, and scheduled data pipelines. Works across TypeScript, React, C#/.NET, Python, Rust, and PostgreSQL, and owns everything around the code: billing, compliance, security, deployment, and support.

EXPERIENCE

Founder & Lead Engineer · Mama Dog LLC — Austin, TX · 2025 – Present

- Founded and run a software company that builds, launches, and operates commercial web, mobile, and Shopify products, from incorporation to production support.
- Shipped two Shopify App Store apps: PayLogic earns recurring revenue from paying merchants, and Counterline is live with tiered plans on Shopify Managed Pricing.
- Own the non-engineering work: Stripe and Whop accounts, GDPR and protected customer data, Twilio A2P consent, Terms and Privacy policies, secret rotation, and App Store listings.
- Only built, test-enforced features appear on a pricing page; every live plan card is audited against the code that enforces it.

Bartender · Location 5 Catering — Monte Rio, CA · 2015 – Present

- Run the bar program for a white-glove catering service at one of the world's most exclusive private clubs.

PRODUCTS

PayLogic · paylogic.dev — Shopify App Store · revenue-generating

Rust/WebAssembly, TypeScript, React Router, Polaris, Node.js, Prisma, GraphQL, Fly.io

- Checkout app that hides, renames, and reorders payment methods; a Rust-to-WebAssembly Shopify Function evaluates every cart against merchant rules.
- Rule engine with 18 conditions (cart total, country and ZIP, customer and product tags, lifetime spend, composite risk score) combined through OR groups.
- 26-route admin on App Bridge and Polaris with typed GraphQL codegen, plus an importer for merchants migrating off deprecated Shopify Scripts.
- Tiered billing with free trial, per-plan gating, and 50-snapshot config rollback; tags cached into metafields on webhooks keep checkout fast.

Counterline · counterline.app — Shopify App Store · live

TypeScript, React Router 7, Polaris, App Bridge, Prisma, PostgreSQL, Fly.io

- B2B quoting and RFQ app built on Shopify's native companies, locations, and catalogs, launched after Shopify opened B2B to every plan in April 2026.
- Quotes from each buyer's real catalog price, where competitors fall back to retail via plain Draft Orders; converted orders keep terms and negotiated prices.
- Found and test-locked two easy-to-miss Shopify API behaviors that silently produce wrong prices on catalog lookup and draft-order conversion.
- Exact decimal money math end to end, 68 test suites, a storefront quote-request extension, and plan entitlements audited against the live listing.

The Sports Betting Lab · sportsbettinglab.bet — Live · paid Pro tier

Python, C#/ASP.NET Core, React, TypeScript, PostgreSQL, Discord API, Fly.io, DigitalOcean

- Analytics platform for NBA, MLB, NFL, and NHL with box scores back to 2016, prop research tools, and a public, fully graded pick record.
- Market scanner compares sportsbook prices to a sharp no-vig consensus every five minutes and flags +EV prices, line moves, and stale books.
- Discord slash-command bots price any prop or parlay on demand; Lab Pro adds Discord OAuth login, Whop role gating, and a metered free allowance.
- Scheduled jobs publish picks, grade results, retrain the model weekly, and render social cards and video reels; responsible-gambling notices are test-enforced.

Reputater · reputater.com — Web · iOS · Android

Next.js, C#/.NET, React Native (Expo), PostgreSQL, Stripe, OpenAI, Cloudflare R2

- Positive-only review platform for local businesses: Next.js web app, C#/.NET REST API, and React Native app on a 40-table PostgreSQL schema.
- Self-serve ad auction where OpenAI screens each creative and Stripe manual capture charges only after approval, synced by signed webhooks.
- Pre-launch security pass (CSP, JWT with BCrypt, per-IP rate limiting, admin authorization); SendGrid, Twilio, and Expo push integrations.

SKILLS

Languages: TypeScript, JavaScript, C#, Python, Rust, SQL
Frontend: React, Next.js, React Router, React Native (Expo), Tailwind CSS, Polaris, D3.js, Vite
Backend & data: ASP.NET Core, Entity Framework Core, Node.js, Express, FastAPI, Prisma, GraphQL, PostgreSQL, ML backtesting
Platforms & services: Shopify Functions and Admin API, Discord API, Stripe, Whop, Twilio, SendGrid, OpenAI API
Infrastructure & testing: Docker, Fly.io, AWS, DigitalOcean, Cloudflare, Nginx, GitHub Actions, Vitest, Jest, Playwright, pytest

EDUCATION

Codecademy · Computer Science and Back-End Engineer Career Path certificates — 2020 – 2022

SAT Math: 790 (99th percentile)