

# BABAK MILANI

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## PROFESSIONAL SUMMARY

Full-stack developer and technical founder with expertise in building production-ready SaaS platforms from concept to deployment. Specialized in AI integration, payment processing, mobile development, and end-to-end automation. Proven track record of architecting scalable systems handling real-time communication, serverless infrastructure, and complex API integrations.

## TECHNICAL SKILLS

**Languages & Frameworks:** JavaScript/Node.js, Python, React, React Native, FastAPI, Express

**Cloud & Infrastructure:** AWS (Lambda, DynamoDB, S3, Cognito, SES, API Gateway), Firebase, Railway, GCP, Cloudflare Workers, Cloudflare Pages

**Databases:** PostgreSQL, Firestore, DynamoDB, Supabase

**APIs & Integrations:** Stripe, Claude AI API, Azure Cognitive Services, Resend, GitHub API, Cloudflare API, WebRTC, Google Sheets API

**Mobile & DevOps:** iOS (Xcode), Android Studio, WebSockets, CI/CD, Docker, PM2, Playwright automation

## KEY PROJECTS

### Alimi.ai — AI-Powered Website Generation Platform

Full-Stack Developer & Founder

Built and deployed an end-to-end SaaS platform that generates complete, production-ready websites for small businesses using AI. Customers select a package, provide business details, and receive a fully deployed website with custom domain, SSL, and working contact forms—all automated.

- Integrated Claude AI API to dynamically generate React + Vite codebases tailored to three distinct package tiers (landing pages, multi-page business sites, and e-commerce stores with shopping cart and admin dashboard)
- Built automated deployment pipeline: Stripe payment → AI code generation → GitHub repo creation → GitHub Pages deployment → Cloudflare domain registration and DNS configuration
- Developed custom Playwright-based browser automation with AI self-healing for domain registrar operations, eliminating manual intervention
- Implemented real-time contact form system with CORS-enabled API endpoints, Firestore storage, and Resend email notifications to business owners
- Created customer dashboard for website modifications, analytics, and contact form submissions

**Tech Stack:** Node.js, Express, React, Firebase/Firestore, GitHub API, Cloudflare API, Stripe, Resend, Claude AI API, PM2, GCP

### Mamnoon.ai — Cross-Platform Mobile Video Calling with Real-Time Translation

Full-Stack Developer & Founder

Cross-platform mobile video calling application with real-time speech translation, serving users across iOS, Android, and web.

- Built production React Native application from scratch, deploying to iOS App Store and Google Play Store with native performance optimization
- Implemented WebRTC video calling with custom P2P signaling, handling complex mobile-specific challenges including background state management, network transitions, and permission handling
- Designed and built scalable FastAPI/Python REST API handling authentication, video session orchestration, payment processing, and real-time WebSocket connections
- Architected PostgreSQL database schema using Supabase with row-level security, managing user profiles, subscription tiers, session history, and usage tracking
- Integrated Azure Cognitive Services APIs for speech-to-text, real-time translation, and text-to-speech across 50+ languages

- Implemented Stripe payment integration with webhook handlers for subscription lifecycle management, usage-based billing, and automated invoice processing

**Tech Stack:** React Native, iOS/Xcode, Android Studio, Python/FastAPI, WebRTC, PostgreSQL/Supabase, Stripe, Azure Speech APIs, Railway, WebSockets

## **CSV Cleaner — Privacy-First Email List Cleaning SaaS**

Founder & Developer

Designed and launched a pay-per-use SaaS product that helps marketers clean and deduplicate email lists with a privacy-first architecture.

- Built privacy-first architecture where user data never touches the server, ensuring GDPR compliance through client-side processing
- Implemented secure payment processing with Stripe, achieving seamless checkout-to-download user experience with instant file delivery
- Developed serverless backend using Cloudflare Workers for scalable, cost-effective operations with global edge deployment
- Integrated automated notifications via Resend API and Google Sheets for lead tracking and customer analytics

**Tech Stack:** React, Tailwind CSS, Cloudflare Workers, Firebase Authentication, Stripe, Resend API, Google Sheets API

## **Centrix.Email — Full-Stack SaaS Email Marketing Platform**

Full-Stack Developer & Founder

Designed and developed a production-ready email marketing SaaS application with a pay-per-send business model, eliminating traditional monthly subscription fees for users.

- Built serverless architecture using AWS Lambda (Node.js), API Gateway, and DynamoDB for scalable, cost-effective operations
- Developed responsive React.js frontend with Tailwind CSS, featuring template selection, drag-and-drop campaign builder, and real-time analytics dashboard
- Implemented comprehensive security measures including CSV upload validation, formula injection prevention, rate limiting, input sanitization, and daily send limits
- Integrated Stripe payment system with checkout sessions, webhook handling, and tiered pricing (\$3.99–\$49.99 based on volume)
- Built campaign composer with professional email templates, CSV contact upload with validation, and open/click tracking with analytics dashboard
- Configured AWS Cognito authentication with email verification, password reset, and secure session management

**Tech Stack:** React, Node.js, AWS (Lambda, DynamoDB, S3, Cognito, API Gateway), Stripe, Resend, Cloudflare, Google Apps Script