Ian Guy

Software Engineer & Cybersecurity Student | University of Delaware

Founder, IGuy Innovations / Co-Founder, ScaleIt CRM

VENTURES & CLIENT WORK

ScaleIt CRM | Co-Founder scaleitcrm.com

Multi-tenant SaaS CRM for home service businesses. Implemented organization-scoped data isolation with Supabase RLS and a data-driven pipeline engine for 21 industry verticals. Production Claude-powered AI answers natural-language questions across live CRM data, alongside automated SMS follow-ups.

IGuy Innovations | Founder

Kirkwood Healthys Promo System - A lead-capture and redemption funnel converted **74% of 1,050 claimed offers** into in-store redemptions. Real-time admin analytics, GoHighLevel webhooks, and PIN-based authentication. claim-kirkwoodhealthys.com

CLG True Solutions PWA - Private-practice PWA retaining **75+ active users**. In-app session joining, secure document uploads, a general-purpose Q&A bot, and third-party scheduling. clg-true-solutions.com

FloCo Epoxy - Full-stack Next.js app and CRM integration with a five-step estimate pricing calculator, 2D floor visualizer, and automated lead routing. flocoepoxy.com

ENGINEERING, AI & HARDWARE

Hardware Security & Side-Channel Analysis | Research

Designed and trained a custom 1D CNN in PyTorch on raw ADC power traces, using time-domain, FFT magnitude, and signal-energy channels. Eliminated STFT preprocessing to reach **96.69% accuracy on unseen data**. **1st Place, University of Delaware VIP Research Showcase.**

Project Aegis | IoT Telemetry Platform

Integrated ESP32 firmware, MQTT messaging, and AWS EC2 infrastructure into an end-to-end IoT telemetry platform, reducing device-to-cloud latency by **35%**.

Open Duck Mini v2 | Robotics

Custom 3D-printed humanoid desktop robot with **14 Feetech servos**, a Raspberry Pi Zero 2W, and Sim2Real reinforcement learning deployment.

Autonomous Robot | Embedded Systems

Built and debugged a robot integrating motors, servos, ultrasonic and line sensors, OLED display, RGB LEDs, and audio. Diagnosed GPIO misconfiguration and power faults; implemented reliable real-time control loops with fail-safe behaviors.

TECHNOLOGIES

TypeScript / Python / C/C++ / Next.js / FastAPI / Supabase / PostgreSQL / AWS EC2 / PyTorch / ESP32 / MicroPython