

Tyrone Tabornal
Full Stack Developer
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PROFESSIONAL EXPERIENCE

ORRIN STUDIOUS

2025-Present

Design Agency

Founder & Lead Full-Stack Engineer

- Led a 4-member team to architect and build a full-stack tour service platform using Next.js, React.js, Firebase, and Sass. Developed all UI components from scratch, including a secure login, dynamic forms, modals, search, and the core management dashboard.
- Engineered 3 end-to-end client websites, driving a 40% increase in online visibility. Integrated a Contentful (CMS) back-end with a dynamic Next.js front-end, implementing complex animations with GSAP and Framer Motion.
- Partnered with 10+ clients (indie studios, community leaders) to deliver 500+ custom pixel art and UI assets, increasing community engagement by 48% and winning 'Top 1 in Visuals' in a 48-hour game jam.

RUFBAC TOUR SERVICES

2025

Tour Services Booking

Full-Stack Developer & Team Lead

- Led the development of a comprehensive admin dashboard for managing core business operations, including site popups, services, and user bookings.
- Engineered the full-stack solution, integrating Firebase (Firestore & Auth) for real-time database management and back-end services.
- Built the complete, responsive, user-facing website and landing page from the ground up, ensuring a seamless experience across all devices.

GOOGLE DEVELOPER GROUPS ON CAMPUS – CTU

2025-Present

Non-Profit & Google Developer Groups Recognize Organization

Campus Organizer & Community Lead

- Designed and led hands-on technical workshops for 30+ participants on Google Cloud Platform (GCP), Firebase, Vertex AI, and the Gemini API (using Google AI Studio).
- Organized and managed a 1-week game jam that attracted 40+ project entries and facilitated training sessions on essential developer tools like Git and Figma.
- Led an organization of 30+ officers across 5 teams (Design, Tech, Finance, Operations, Community) by mentoring 3 team leads and implementing project management workflows using Notion and Trello.
- Drove 48% community growth (from 947 to 1,400+ members) by forging 10+ strategic partnerships with key organizations like UXPH and DEVCON.

SELECTED PROJECTS

RUFBAC TOUR SERVICES | [Visit Site](#)

2025

Rufbac is a digital concierge for booking island tours, vehicle rentals, and shuttle transfers. Travelers browse a rich React/Vite website, pick a package, choose their dates, add guest details, and confirm in one guided flow—no phone calls or email back-and-forth.

- A Firebase-backed booking engine keeps services, availability, and reservations synchronized so guests always see up-to-date slots, while admins log into a secure dashboard to approve bookings, edit packages, and launch promos.
- Automated validation and capacity checks prevent overbooking, and the system targets faster confirmations plus fewer scheduling mistakes.
- Tech Stack: React + TypeScript, Tailwind, Radix UI, Motion for UI polish; Firebase Auth, Firestore, Storage, and Analytics for auth, data, media, and insights; Recharts for admin metrics; Vercel/Git for deployment.

KAPWANOW | [Visit Site](#)

2025

A full-stack disaster response platform designed to bridge information gaps by connecting those in need with volunteers and resources in real-time.

- Architected a complete full-stack solution, building the Next.js/React front-end and a secure admin dashboard powered by a real-time Firebase (Firestore) back-end.
- Integrated the Google Maps API as the core interface, enabling users to visually plot, track, and respond to assistance requests, reported hazards, and volunteer locations.
- Tech Stack: Next.js, React, Firebase (Firestore), Google Maps API, GCP, Git, Netlify

PIXELSTASH | [Visit Site](#)

2025

Pixelstash is a curated shelf of pixel-art packs, palettes, and tutorials meant for indie game artists who want vetted links without digging through forums.

- Visitors land on a smooth-scrolling Next.js experience, search or filter by resource type, browse nine cards per page, pop open details in a modal, and jump straight to the creator's site.
- All catalog data lives in a Contentful pixelstash model; the app transforms entries into clean objects with tags, pricing, licenses, screenshots, and verified badges so editors can update content without redeploying.
- Tech Stack: Next.js 16 + React 19 front end, Contentful SDK for data, Sass modules for styling, modern tooling (Vite-style DX, ESLint 9) and Netlify/Git deployments.

- Homepage lists all 82 sumo moves with search, rarity filters, and paging for quick scanning.
- Detail view shows an animated stick-figure replay, physics vectors, and a “compare another move” option beside story and notable wrestlers.
- Referee Mode is a timed quiz: watch the animation, pick the right move before the clock or your three lives run out.
- Admin area (simple password) lets editors draw new frames, add force arrows, fill out copy, and copy JSON straight back into the dataset.
- Stack: Vite + React 19 + TypeScript, React Router for nav, Lucide icons, Tailwind-style utility classes.
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AGRISAHAYAK | [Case Study](#)

2025-Present

An AI-powered, multilingual weather advisor for climate-resilient farming, designed to empower subsistence farmers in Bangladesh with actionable drought forecasts and localized agricultural guidance.

- Proposing a full-stack conversational AI solution built on the GENIE.AI framework, featuring a WhatsApp chatbot for accessible, offline-capable advice delivery and a companion React Native mobile app with visual drought risk mapping for progressive users.
- Architecting an optimized on-device NLP model with integrated meteorological data, designed to reduce decision uncertainty from weeks of guesswork to real-time, hyperlocal recommendations—targeting 20% crop loss reduction and 35% improved planting confidence within the first season of deployment.
- Tech Stack: GENIE.AI (framework), WhatsApp Business API, React Native (mobile), Node.js (backend), PostgreSQL, TensorFlow Lite (lightweight NLP), Bengali voice models (STT/TTS), Git.

STRUCTSURE | [View Case Study](#)

2025

A mobile-first, AI-powered building safety assessment platform designed to address the critical shortage of structural engineers in the Philippines by democratizing rapid, post-earthquake evaluations.

- Proposing a hybrid human-AI solution featuring an offline-capable Flutter mobile application for citizen-led data collection and a centralized LGU Command Dashboard for real-time damage heatmapping and resource prioritization.
- Architecting an optimized on-device computer vision model (12.3 MB) capable of offline inference in 6.2 seconds, designed to reduce building assessment time from 4 hours to 8 minutes—targeting a 50% reduction in family displacement duration.
- Tech Stack: Flutter (Mobile), TensorFlow Lite (Edge AI), MobileNetV2 + U-Net (Model Architecture), Python, Google Cloud Platform (GCP), Google Colab

EDUCATION

- Cebu Technological University, BS in Information Technology

2024-2028

ADDITIONAL INFORMATION

- Languages: English (C2), Filipino (Native), Cebuano (Native)
- Certificates: Front-end Developer Path (Scrimba), TESDA – NC II in Computer Systems Servicing