

NICOLE DUCHITANGA-ILLERA

Founding Full-Stack Engineer

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EXPERIENCE

Founding Full-Stack Engineer • *Parfour* Jan 2025 – Apr 2026

- Led **end-to-end development of a real-time golf platform** across web, iOS, and Android, delivering live scoring, GPS tracking, and short-form video features that power core user engagement.
- Architected a high-performance web app (Next.js, TypeScript) with infinite-scrolling feeds, **sub-second real-time updates**, and live streaming integrations optimized for low-latency interactions.
- Shipped cross-platform mobile features (Expo, React Native) from a **single codebase**, maintaining full feature parity with web while optimizing for native performance and UX.
- Designed **event-driven backend systems on AWS** (Lambda, API Gateway, DynamoDB, Cognito), enabling scalable real-time data processing and secure authentication for production workloads.
- Built internal admin tooling (React + TypeScript) that **streamlined content moderation workflows** and reduced operational response times.
- Established CI/CD pipelines and automated deployments, enabling multiple production releases per week and reducing manual deploy overhead.

Quality Assurance Tester • *UserTesting* May 2022 – Jan 2025

- Ran QA across web and mobile apps — surfacing critical bugs, performance issues, and usability gaps — and delivered structured feedback on UX, accessibility, and responsiveness across multiple client products.

PROJECTS

On My Nerves • *Real-Time Health Tracking App (React Native, Uniwind, Convex)*

- Built a mobile-first health tracking app with **React Native (Expo) and a Convex backend**, enabling real-time data sync without traditional REST APIs.
- Leveraged **Convex's reactive database and serverless functions** to auto-sync symptom logs across sessions, simplifying state management and reducing backend complexity.
- Designed a **scalable time-series data model** supporting fast queries and future analytics such as pattern recognition and anomaly detection.
- Implemented secure authentication using **Better Auth** for safe handling of sensitive health data.

SKILLS

Frontend: React, Next.js, React Native (Expo), TypeScript

Backend: Node.js, Convex, AWS (Lambda, API Gateway, DynamoDB, Cognito), PostgreSQL, Better Auth

Systems: Real-Time Systems, Event-Driven Architecture, Live Streaming, CI/CD

Tools: Tailwind CSS, NativeWind, ShadCN, Git, Claude Code, Codex, Cursor

EDUCATION

Certificate in Software Engineering • *Codesmith Software Training Institute* 2025

- Completed an intensive full-time software engineering program through the Future Code NYC initiative in partnership with Codesmith, covering full-stack web development, computer science fundamentals, and industry best practices.