NICHOLAS PERPICH

Full stack Developer

+1-630-433-7325 nicholas.perpich@gmail.com New York , United States **portfolio**

EMPLOYMENT HISTORY

Full Stack Developer at Dance Video Learning Platform

- Developed a ReactJS web app for dance studios to host, index, and search instructional videos.
- Implemented AWS-based video pipelines using S3, presigned URLs, Lambda, and Elastic Transcoder.
- Delivered adaptive HLS streaming for optimized playback across devices.
- Designed MongoDB schemas with indexing and performance optimization.

Full Stack Developer at Interactive Relationship Growth Platform

- Architected a multi-phase guided relationship development application inspired by immersive coaching frameworks.
- Built dynamic daily journey flows including rituals, reflections, and integrations.
- Implemented real-time partner presence and shared reflections using Supabase.
- Integrated voiceovers, waveform visualization, and ambient audio environments.
- Engineered modular component systems for scalable program expansion.

Full Stack Developer at Colombia Tours & Booking Platform

- Designed and deployed a full-stack tourism booking platform.
- Built tour discovery interfaces with galleries, itineraries, and accessibility tagging.
- Integrated Stripe payments with dynamic pricing and booking logic.
- Developed Node/Express APIs for booking, scheduling, and customer workflows.
- Implemented AWS media storage and Google Calendar scheduling integrations.

Senior Design Engineer at BathWraps (Jacuzzi)

- Redesigned custom order production workflows.
- Collaborated across manufacturing and engineering teams.
- Engineered thermoforming systems and tooling optimizations.
- Built integrations across Excel, NetSuite, SolidWorks, and Mastercam.

SKILLS

ReactJS   Next.js   JavaScript   HTML5   CSS3

Framer Motion   MUI   Node.js   Express.js   REST APIs

Authentication Systems   MongoDB   SQL

Supabase Realtime   AWS   Docker   Git   Stripe

Google Calendar API   HLS Streaming   Audio Processing

Presence Systems

SUMMARY

Full Stack Developer specializing in building immersive, scalable web applications across media, real-time systems, and transactional platforms. Experienced in architecting end-to-end products from concept to deployment, including interactive coaching experiences, tourism booking platforms, and video learning systems. Strong expertise in React, Node.js, MongoDB, and AWS, with a focus on performance, UX, and cloud infrastructure.

EDUCATION

BS in Mechanical Engineering

University of Illinois

September 2009 - May 2013 , Urbana-Champaign

LANGUAGES

English C1
Spanish B2