NICHOLAS MARNOCHA

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SUMMARY

Full-stack developer and operations leader with a B.S. in Homeland Security & Emergency Management and four years managing aviation operations for CAL FIRE, coordinating Blackhawk, Super Huey, S-2, OV-10, and C-130 aircraft under time-critical wildfire conditions. Builds React/TypeScript products, operations simulations, marketplaces, court-record prototypes, and client websites. AWS and Google AI certificate holder pursuing a second B.S. in Computer Science at WGU. Seeking remote or hybrid work in IT, analytics, product operations, or AI engineering.

EDUCATION

University of Alaska Fairbanks — B.S., Homeland Security & Emergency Management, 2020

Western Governors University — B.S., Computer Science; enrolled, program begins October 2026

Santa Ana College — A.S., Fire Science

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, SQL, HTML/CSS

Frameworks & Platforms: React, Next.js, Node.js, Supabase (Postgres), Vercel

Tools & Services: Git/GitHub, Stripe Connect, REST APIs, Ed25519 cryptographic signing

AI: Amazon Bedrock, foundation models, knowledge bases, AI agents, LangChain patterns, Amazon Q Developer, LLM application development, prompt engineering

Operations Systems: Dispatch and resource-tracking software, GPS/flight-tracking systems, manifest and chain-of-custody documentation

SOFTWARE DEVELOPMENT & INDEPENDENT WORK

Solo Developer — OSIRIS, Wildfire Operations Simulation

- Built a public-source React 19 and TypeScript portfolio prototype with Canvas 2D geospatial visualization, ten-category vector symbology, interactive dossiers, configurable DAG orchestration, and WebSocket state synchronization.
- Added explicit synthetic-data provenance across the UI, exports, sample records, and documentation; the project is not connected to agency systems and is not intended for operational use.
- Verified the current release with 30/30 Vitest tests passing across three suites, a zero-error TypeScript check, and a successful Vite production build.

Founder & Developer — Froghaus Studios, Web Design & Development | July 2025–Present

- Build production websites for small businesses, with full ownership transferred to the client at delivery.
- Developed a phased build methodology spanning foundation, static site, database, booking, interactive features, owner dashboard, and launch using Next.js, Supabase, Vercel, and GitHub.
- Currently building the site and service-request system for SoCal Marine Services LLC.
- Integrate e-commerce and financial tracking so non-technical owners can operate and modify their sites after handoff.

Solo Developer — Collectibles Trading & Marketplace Platform

- Designed a no-custody transaction model using Stripe Connect and tiered platform commissions.
- Built React prototypes for signed trade contracts, an offline dual-QR device handshake, and a dealer show-floor interface.
- Implementing Ed25519 device keypair signing and a stolen-item registry API backed by provenance records.

Solo Developer — Accord, Co-Parenting Communication Platform

- Architected a neutrality firewall and court-record exhibit builder for verifiable communication exports.
- Designed a free parent product supported by a planned professional portal for attorneys and court personnel.

OPERATIONS EXPERIENCE

CAL FIRE — Air Base Manager / Firefighter / EMT | Humboldt County, CA | May 2020–Feb 2024

- Managed helicopter air base operations across Blackhawk, Super Huey, S-2, OV-10, and C-130 platforms, sequencing aircraft, crews, and retardant operations under time-critical conditions.
- Owned retardant and chemical shipment logistics, reconciling load tickets and manifests, confirming handoffs by radio, and escalating discrepancies before dispatch.
- Maintained current aircraft and crew status in dispatch resource-tracking systems and reported to incident command and fire management.
- Rerouted and re-timed deliveries with dispatch as fire behavior shifted, protecting schedule integrity across multi-day deployments.
- Delivered emergency medical care as a certified EMT in austere environments.

Gold's Gym SoCal — Maintenance & Logistics Manager | Aug 2024–Jun 2025

- Directed facility operations, equipment maintenance, supply logistics, procurement, and replacement planning.
- Implemented process changes that reduced equipment downtime.

JB Fire Protection Inc. — Apprentice Foreman | Oct 2023–Jul 2024

- Led small crews on inspection, repair, and installation of commercial fire-suppression systems; owned code-compliance documentation per job.

Seal Beach Lifeguard Association — Supervisor / Lifeguard / Instructor | May 2014–Jun 2020

- Supervised rotating guard staff, ran instructional programs, and coordinated with fire and EMS on multi-agency incidents.

CERTIFICATIONS

- AWS Generative AI and AI Agents with Amazon Bedrock — Professional Certificate, Amazon Web Services via Coursera, Sep 2026
- Google AI — Professional Certificate (7 courses), Google via Coursera, Aug 2026
- Google AI Essentials — Specialization (5 courses), Google via Coursera, Aug 2026
- Anthropic Academy — Claude 101; AI Fluency: Framework & Foundations
- In progress: AMD Academy — AI Developer Program
- Operational: EMT (California); Firefighter I; Fire Apparatus Driver/Operator; HAZMAT Operations; Rope Rescue; SCBA / Technical Rescue; Forklift & Heavy Equipment

ADDITIONAL

U.S. Person (export-control eligible) | Clears background check | SCUBA certified