

Zakary Nichols

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PROFESSIONAL EXPERIENCE

MFB Technologies - Align Binders (Remote) - <https://align.lawyer>

Software Developer

Washington, DC

April 2021 – October 2025

- Built a real-time collaborative document platform that lets multiple users annotate, navigate, and review large legal binders simultaneously.
- Designed and implemented conflict resolution logic for concurrent edits, preventing data loss while keeping user intent intact during simultaneous updates.
- Implemented a full binder export system capable of assembling deeply nested documents, tabs, and metadata into a correct, printable hierarchy.
- Managed Azure DevOps sprint boards and sprint planning, rotating ownership each sprint to ensure shared team responsibility and continuity.
- Monitored, reported, and resolved Snyk security vulnerabilities to maintain application security and compliance.
- Completed assigned monthly Wyzer security training focused on secure coding practices and vulnerability awareness.
- Built internal tooling and scripts to support development workflows, end-to-end testing, debugging, and deployment automation.

Spectrum Net Designs - Auctioneer Software - <https://www.auctioneersoftware.com/>

Grand Rapids, MI

Full-Stack Developer

February 2021 – April 2021

- Delivered end-to-end features across the stack, from database migrations and backend services to frontend UI updates.
- Designed and evolved SQL schemas for live auction data, balancing new feature requirements with backward compatibility.
- Built Node.js service handlers to process real-time auction events, bids, and state changes with low latency and predictable behavior.
- Debugged production issues involving data consistency and event timing during high-traffic auctions.
- Worked with product and backend teams to trace data flows, diagnose system bottlenecks, and stabilize core auction functionality.

Firefly Integrations - Vegatouch Team - <https://www.fireflyint.com/>

Middlebury, IN

Web/Mobile Developer

October 2020 – February 2021

- Developed a cross-platform mobile application using React and TypeScript that interfaced directly with embedded RV control hardware via Bluetooth Low Energy.
- Implemented real-time control and monitoring for RV systems including lighting, HVAC, power distribution, and tank sensors.
- Worked closely with firmware engineers to debug and resolve low-level communication issues involving endianness, signal framing, timing, and protocol design.
- Built fault-tolerant synchronization logic to keep the mobile UI consistent with asynchronous and partially connected hardware states.
- Investigated system-wide bugs spanning firmware, BLE transport, and frontend logic to improve responsiveness and reliability.
- Documented integration patterns and debugging workflows to streamline future collaboration between mobile and firmware teams.