

Zachary Carlin

Senior Software Engineer | Frontend & Full-Stack TypeScript

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Authorized to work in the United States · No sponsorship required

PROFESSIONAL SUMMARY

Frontend engineer who owns product from architecture to shipped software. Eight years building and modernizing data-rich web platforms in TypeScript, React, Next.js, and Node.js — across teams from 3-person startups to 100+ companies — currently the frontend technical lead for a B2B financial-data platform. Also design, build, and operate production systems end-to-end: a deployed customer-facing platform and private AI reliability infrastructure.

TECHNICAL SKILLS

Frontend: TypeScript, JavaScript, React, Next.js, Vue, Nuxt, HTML, CSS, responsive design, server-side rendering, Figma implementation

Backend and data: Node.js, Python, REST APIs, GraphQL, SQL, Postgres, MongoDB, Firebase

Delivery and quality: Docker, Git, CI/CD, AWS, Google Cloud, Jest, test-driven development, ESLint, technical-debt controls

Applied AI systems: tool use, retrieval, deterministic evaluations, redaction, regression comparison, human approval, observability

PROFESSIONAL EXPERIENCE

The Fly (Main Street Data) — Senior Software Engineer

Remote · July 2023–Present

- Frontend technical authority on a B2B financial-data platform — direction, delivery, and the build, from Figma through tested production.
- Joined Main Street Data at its founding as a 3-person startup; the company was later acquired by a larger international (Israel-based) company and is now The Fly (50+).
- Built and operate the MCP server at mcp.thefly.com, exposing The Fly as tools agents can call — production MCP tooling.
- Built the product's AI chat widget end-to-end, including streaming responses, retrieval grounding, and human-gated behavior.
- Added automatic code review to the delivery flow, so every change ships with review and CI/CD gates before it can land.
- Improved the CI/CD pipeline — faster, more reliable builds and gated promotion — across the frontend and API surfaces.
- Modernized frontend quality controls (ESLint flat config, stricter checks, type-debt tracking) and led the Next.js pages-to-app-router migration with server-side rendering to cut initial-load latency.

Sonobi — Senior Software Engineer

Remote · July 2022–July 2023

- Frontend engineer at Sonobi, a digital ad-buying platform (100+ people) — built and maintained its React applications, modernizing legacy class components to hooks and async product flows.
- Migrated legacy jQuery product flows to maintainable React components.
- Integrated React features with PHP and Python services and optimized GraphQL/Postgres-backed API and database paths.
- Contributed to Prebid.js (github.com/prebid/Prebid.js) — the open-source ad-bidding standard — and ran day-to-day engineering coordination.

Dogwood Logic — Software Engineer

Remote · February 2021–May 2022

- Software engineer at Dogwood (10+ people) — implemented decentralized identifiers and verifiable credentials with Node.js and TypeScript.
- Built Vue.js interfaces for encrypted healthcare applications.
- Used test-driven development and realistic user-flow simulations to improve reliability.

Gulf Photonics — Software Engineer

Tampa, Florida · July 2018–August 2020

- Lead developer at Gulf Photonics (5+ people) for an IoT embedded sensor for fermentation monitoring using photonics — shipped to accubrew.io — plus its web dashboard.
- Built Node.js and Vue.js interfaces and APIs for sensor interaction.
- Managed MongoDB and Firebase data stores across mobile, desktop, Unix, and Windows environments.

INDEPENDENT ENGINEERING

Z4C & AI Reliability Systems — Owner / Product Engineer / Operator

2024–Present

- Design, build, deploy, and operate a customer-facing platform (React, TypeScript, Cloudflare) end-to-end — timezone-aware intake, concurrency-safe storage, abuse protection, analytics, automated tests, production verification on every change. Live at z4cllc.com.
- Build and operate private AI workflow and evaluation infrastructure: deterministic evaluations, regression comparison, redaction of persisted output, human-gated promotion with rollback awareness. Production agent tooling.
- Own both systems end-to-end — architecture, code, deployment, and day-to-day operation.

EDUCATION

Associate of Arts — St. Petersburg College, 2018