ZANE ALEXANDER JOHNSON

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SUMMARY

Computer Science sophomore who ships production software and works with data end to end — schema design and ingestion pipelines through dashboards and stakeholder-ready analysis. Seeking a data or software engineering internship for Summer 2027.

EDUCATION

University of Notre Dame — Bachelor of Science in Computer Science | Expected May 2029

Relevant Coursework: Data Structures (C), Computer Organization, Discrete Mathematics, Calculus III, Generative AI in the Wild

SKILLS

Languages: Python · C · Java · TypeScript / JavaScript · SQL · HTML / CSS

Frameworks & Tools: Next.js 14 (App Router) · React · Supabase · PostgreSQL (RLS, PostGIS) · Vercel · GitHub Actions · Git · Mapbox GL · Tailwind

Data: pandas · NumPy · Matplotlib · PyTorch · SciPy · Tableau · Excel

Spoken: English (native) · Spanish (fluent)

EXPERIENCE

Founder & Sole Engineer — Encore

Atlanta, GA (Remote) | May 2026 – Present

- Shipped the web beta of Encore, a live-music discovery app for Atlanta, as sole engineer — Next.js 14 App Router, Supabase (Postgres + Auth), Mapbox GL, and PostHog, deployed on Vercel at therealencoreapp.com.
- Structured the codebase as a pnpm + Turbo monorepo and set up CI/CD in GitHub Actions (lint, type-check, build, per-PR preview deploys, production deploys on `main`); added a daily event-ingestion cron on Vercel Fluid Compute so the Tonight feed refreshes without manual seeding.
- Designed a 23-migration Postgres schema covering venues, events, artists, follows, RSVPs, groups, and reviews with row-level security on every consumer table; wrote PostGIS-backed RPCs for location and full-text discovery.
- Built an admin console with an AI-assisted venue-submission pipeline — Mapbox geocoding, trigram similarity dedup, and LLM normalization via Vercel AI Gateway — cutting manual venue-onboarding time on submitted rows.

Distribution Strategy Consultant — Bon Sel Dayiti+, University of Notre Dame

Summer 2026

- Advised Fr. Tom Streit, C.S.C. on distribution strategy for a DEC/iodine-fortified salt targeting lymphatic filariasis in Haiti; authored the church-based "Legliz Sante" model — parish wholesale to certified vendors, physical stamp booklets, parish redemption — plus a playbook for gang-controlled regions.
- Led the pivot to a bouillon-cube go-to-market after aligning the Haitian factory technical lead, Notre Dame partnership lead, and production team; delivered a multi-page constraint analysis and decision document to the project lead.

Data Analytics Scholar — Notre Dame Summer Scholars Program

University of Notre Dame | July 2024

- Completed an intensive data analytics program under Professor Brandon Erlacher; cleaned raw datasets and built interactive Tableau dashboards to communicate data-driven insights.

Guest Services & Valet — Marriott International; Eagle Corporation

Atlanta, GA | 2022 – 2024

- Managed vehicle flow and guest service at high-volume venues, optimizing retrieval prioritization to reduce wait times during peak hours.

PROJECTS

NBA Data Analytics — Python, Tableau

- Analyzed NBA player and team datasets to evaluate positional impact on offensive efficiency and floor spacing.
- Built visualizations and Tableau dashboards demonstrating that centers capable of consistent three-point shooting provide significant strategic value.

Route Optimization / Distance Calculation — Python, Java, Tableau, Google Maps API

- Designed a route optimization system assigning delivery hubs to locations by travel time rather than distance, accounting for urban congestion and regional traffic differences.
- Built pipelines to ingest, clean, and analyze large-scale CSV and geospatial data across hundreds of delivery locations, computing hub-to-destination times via the Maps API.