

ERIK SWANSON

Full-Stack Software Developer

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EDUCATION

B.S. in Computer Programming and Information Systems, Farmingdale State College

09/2020 – 05/2023 | Farmingdale, New York

GPA 3.8 / 4.0

SKILLS

Client-Side

HTML, CSS, JavaScript, TypeScript

React, Next.js, Vue

Bootstrap, Material UI

AJAX, jQuery

Server-side

MySQL, MongoDB, Firebase

Python (Pandas, NumPy, SciPy, Scikit-learn)

Node.js, PHP, HTTP/2

Development & Operations

Git, GitHub, GitHub Actions

Docker, Postman

Apache, Cloudflare

Agile / Scrum

STRENGTHS

End-to-End Development Expertise

Designed, built, and deployed full-stack applications using

React, Next.js, Node.js, and MySQL/MongoDB.

Problem Solving

Skilled in identifying and resolving complex bugs across frontend and backend, improving performance and reliability.

Scalability & Performance Optimization

Experienced in optimizing database queries.

SUMMARY

Full-Stack Developer with 5+ years of experience building data-driven web applications, designing and managing relational databases. Strong background in SQL, backend systems, reporting workflows, and scalable application design within production environments.

EXPERIENCE

Lead Software Engineer and Project Technologist, Kelm Inc.

05/2023 – Present | Farmingdale, New York

Kelm Inc. is a organization that has 3 major divison: Kelm Academy, Kelm Media and Kelm Research. Each specializes in different areas.

- Led a cross-functional team of 8+ developers across frontend, backend, and database systems.
- Designed and maintained PHP-based applications backed by MySQL, writing complex SQL queries for reporting, analytics, and transactional workflows.
- Built real-time interactive features using AJAX with MySQL-backed data synchronization.
- Developed responsive frontend interfaces using Bootstrap.
- Integrated third-party APIs (Stripe, PDF.co) to support payments, document generation, and internal management tools.

PROJECTS

Waylaytics, Data-Driven Location Analytics Platform

07/2025 – Present

- Built a full-stack web platform to help users evaluate and compare U.S. states and locations using data on taxes, education, housing, healthcare, crime, and demographics.
- Developed a modern frontend using **Next.js (App Router)** and **React**, featuring interactive **D3.js** data visualizations and dynamic location pages.
- Designed a scalable **MongoDB** data model and implemented custom **Python ETL pipelines** to ingest, clean, and normalize U.S. Census and public datasets.
- Deployed the application on **Vercel**, emphasizing modular architecture, performance optimization, and long-term extensibility for future feature expansion.

OrganicFinds, PHP Based Website

02/2023 – 05/2023

- Led a team of 4 developers to design the application
- Allowed the users to filter through a list of 100s of recipes using a sorting algorithm.
- Allowed users to save their favorite recipes for later