Jerren Trifan

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EDUCATION

Florida Polytechnic University | Lakeland, FL   **Aug 2019 - May 2023**

B.S. in Computer Science | **Focus:** Software Development

Relevant Courses: Data Structures, Algorithm Analysis, Object-Oriented Programming, Web Applications, Mobile Applications, Databases, Operating Systems, User Interface and Experience.

TECHNICAL SKILLS

Programming Languages: JavaScript/TypeScript, HTML, CSS, Go, Python, C#, C++, SQL.
Frameworks / **Libraries**: React, Next.js, Svelte, DrizzleORM, TailwindCSS, Node, Vite, Bun, Express, Hono.
Tools / **Systems**: Git, GitHub, Redis, Firebase, Azure, Cloudflare, PostgreSQL, SQLite, Linux, Windows, Microsoft Office.

WORK EXPERIENCE

Full-Stack Engineer | [**Algopeak.net**](Algopeak.net)   **Jan 2024 - Present**
- Designed and implemented full-stack web applications in an agile environment, utilizing technologies such as React, Next.js, Node.js, and PostgreSQL.
- Designed database systems and integrated automated CI/CD pipelines, thereby reducing errors by 34%.
- Collaborated with clients to build out their requirements and deliver high-performance, scalable solutions.
- Developed and maintained RESTful APIs, ensured seamless integration with front-end interfaces, and created comprehensive documentation to support ongoing development and deployment.

PROJECTS

Cosmic – **Self-Hostable Pastebin** (**SvelteKit** / **PostgreSQL**) - [**trifall.com/cosmic**](trifall.com/cosmic)   **Aug 2025 - Nov 2025**
- Built a full-stack application using SvelteKit, PostgreSQL, and Drizzle ORM, with authentication powered by Better Auth and Zod-based validation, and optimized performance through rate limiting and caching.
- Implemented role-based access control with tiered permissions for admins, users, and guests, including full-featured paste management (syntax highlighting, expiration, visibility levels, password protection, and version history).
- Engineered automated backup systems with support for AWS S3, Cloudflare R2, and filesystem storage, managed via cron-scheduled tasks, and designed a Dockerized deployment pipeline with automatic schema migrations.

AI Image Classifier (**TypeScript** / **React** / **Next.js**) – [**classify.trifall.com**](classify.trifall.com)   **Mar 2024 - June 2024**
- Developed a user-friendly image classifier using Next.js 14, integrating AI for object identification with a single click, and leveraging Clerk for authentication and Drizzle/Turso for database interactions.
- Implemented the project with a modern tech stack including tRPC, TailwindCSS, and Clerk ensuring seamless functionality and a responsive design.

Full-stack Livestream Archiver (**TypeScript** / **GoLang** / **Python**) - [**vods.trifall.com**](vods.trifall.com)   **Mar 2023 - Aug 2024**
- Developed a GoLang application to automate recording and saving of livestreams and integrated a Python script for seamless uploads to YouTube that interfaces with the backend API for comprehensive archiving.
- Designed and implemented a TypeScript-based backend leveraging Redis for caching and rate limiting, and developed a React / Next.js dashboard connected to a MongoDB database to efficiently manage and display video archives with full type-safety, form validation, and custom Express API integrations.

Social Media Site (**TypeScript** / **React** / **Next.js**) – [**social.trifall.com**](social.trifall.com)   **Nov 2023 - Mar 2024**
- Online social media site that allows users to make posts and like / comment on posts from other users by engineering a scalable social media platform using TypeScript, React, and Next.js, to enhance user engagement through the implementation of real-time features and improved UI responsiveness.
- Collaborated in an agile environment in a team of 2 serving as a full-stack engineer utilizing React and Next.js in TypeScript. The database is on the edge runtime using SQLite with Turso, and hosted on a custom private server.