

239-672-6073

Jerren Trifan

Website: trifall.com

Jerren@trifall.com

LinkedIn: [linkedin.com/in/jerrent](https://www.linkedin.com/in/jerrent)

Github: github.com/Trifall

Work Experience

AlgoPeak - AlgoPeak.net

Jan 2024 - Present

Full-stack Engineer

- 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.

Education

Bachelor of Science, Computer Science.

Graduated: May 2023

Florida Polytechnic University – Lakeland, FL.

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

Concentration: Advanced Topics - Focus on software and web development.

Projects

AI Image Classifier (TypeScript / React / Next.js) – classify.lo

Mar 2024 – May 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

Mar 2023 – Jun 2024

- Developed a GoLang application to automate recording and saving of livestreams, integrated Python script for seamless uploads to YouTube, interfacing with backend API for comprehensive archiving.
- Architected the backend using TypeScript, with Redis for caching and rate limiting to optimize video data storage and handling requests. Built custom API routes using Express.
- Developed and deployed a comprehensive dashboard to manage and display video archives from a MongoDB database via React, React-Query, Next.js, and Chakra UI.

Social Media Site (TypeScript / React / Next.js) – [GitHub](https://github.com) / social.trifall.com

Oct 2023 – Jan 2024

- Online social media site that allows users to make posts and like / comment on posts from other users.
- Engineered a scalable social media platform using TypeScript, React, and Next.js, enhancing user engagement through the implementation of real-time features and improved UI responsiveness.
- Collaborated 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.

Time Conversion Website (TypeScript / React) – [GitHub](https://github.com) / timeconvert.trifall.com

Jun 2023 - Nov 2023

- Convert between different time formats (e.g days to seconds) quickly, in one simple UI, with detailed descriptions.
- Solo project developed using Vite, ShadCN UI, Tailwind, React, and hosted on Cloudflare Pages. Used additional form validation and state management libraries to achieve a smooth experience for end-users.

Virtual Cork Board (JavaScript / React) – [GitHub](https://github.com)

Feb 2022 - Aug 2022

- Engineered a shareable online Cork Board using JavaScript and React to enable collaborative creation of images and text posts.
- Constructed API routes using Express to facilitate seamless communication to the React frontend, enabling real-time updates and user interactions.
- Collaborated in a team of 4 in an Agile system serving as a full-stack engineer, focusing on APIs.
- Led comprehensive API testing using Jest, achieving a reduction in deployment issues by 15%.

Skills

Languages: JavaScript/TypeScript, HTML, CSS, GoLang, Python, C#, C++, SQL.

Frameworks / Libraries: React, Node, Drizzle, TailwindCSS, Next.js, Express, Vite, Hono.

Tools / Utilities: Git, GitHub, Redis, Firebase, Nginx, Azure, Digital Ocean, Cloudflare, Supabase, PostgreSQL, SQLite.