



Projects

Prepare to be impressed. A directory of my projects, applications, and tools as it relates to digital technology.

RAkerman Foundation

Executive Director, April 2022 - Present

A place where big ideas make a real impact. The RAKerman Foundation is a small, tight-knit group of highly skilled individuals trying to make the Internet a better place; be that through over-the-top web apps or tack-sharp static websites. We constantly push the bounds of how modern web apps are designed, and we're just getting started. If you'd like to join our initiative, [get in touch](#).

Exploding Chickens: Project Overview

A beautiful, online alternative to the popular Exploding Chickens card game. Designed from the ground up on Nodejs.

Radison Akerman • Radison Akerman



Pulqra

Executive Operations Director, February 2020 - Present

Pulqra is a collective of creatives dedicated to service and impact over profit incentive. Pulqra artists work in a democratized and organized manner, with equality and diversity represented in every collaboration that we are a part of. With a mission capitalist foundation, our collective is driven by mission, not profit. This structure allows for more efficient, effective, and significantly cheaper artistic development for our clients.

Steven Olikara: Project Overview

A foundational website supporting Steven Olikara's run for the U.S. Senate in Wisconsin. Built on Nuxt 3, Tailwinds.

Radison Akerman • Radison Akerman



Vibhav Bansal: Project Overview

A razor-sharp business website for a leader in Neuroscience: Vibhav Bansal MD, JD. Built on Nuxt 3, Tailwinds.

Radison Akerman • Radison Akerman



Personal Projects

Becoming an expert, scratch that, *freakishly good* at something takes years of trial and error until you get it right. Malcolm Gladwell in his book, *Outliers: The Story of Success*, says you need 10,000 hours (20 hours per week for 10 years) to be a phenom at some particular craft.

“The emerging picture from such studies is that ten thousand hours of practice is required to achieve the level of mastery associated with being a world-class expert—in anything,” writes the neurologist Daniel Levitin. — p. 40

Ever since I first discovered what computers are capable of in 7th grade, I've found an unrelenting drive to learn and push things further. Computer science became a part-time hobby for me (and still is) as I continue to build a catalogue of personal projects.

Rock River Anything That Floats Race Manager

May 2019 – August 2020 | An effort to streamline the organizational efforts of the Rock River Anything That Floats Race. Running on Node.js, this project displays a powerful web interface where administrators can manage raft information, conduct raft timing, and display results to the public. A smart timing plugin and a custom web voting limiter for the People's Choice Award were both built from scratch.

Production site: <https://rratfr.rakerman.com>

Github repository: <https://github.com/rak3rman/rratfr-manager>

RAkerman Status

June 2021 - June 2022 | A fallback web server and status monitor for all RAKerman-related services. RAKerman Status is built of top of couple state-of-the-art technologies (Nuxt 3, Cloudflare Workers) that allow it to be deployed on a global scale. And oh yeah, whenever a service comes offline it sends an email alert to all "subscribers" via RAKerman Notify. Pretty cool right?

Production site: <https://status.rakerman.com>

Github repository: <https://github.com/rak3rman/rakerman-status>

ImpackAI

April 2020 – August 2020 | An inventory management platform unlike any other. ImpackAI puts analytics at the center of your workflow all while keeping a simple and intuitive interface. Keep track of inventory with varying amounts of stock at different stages in the production process. Help employees work more efficiently with an advanced metrics system. Predict purchase orders in the future. All in just a couple clicks.

Homebase

April 2021 - July 2021 | A personal take on home automation. Homebase is a set of home controllers designed to monitor and manage literally anything. *Homebase SPKR* is a fully-inclusive smart sprinkler system controller. Just specify what zones you want watered and when, and *SPKR* will do the rest. *Homebase GARA* watches over the garage with a few neat tricks. *GARA* can automatically close all open garage doors and turn the lights on and off whenever you open a door. *Homebase MNTR* receives the wired input of any door sensors in your home and notifies you if it detects a breach. All built from scratch, by myself.

Github repository: <https://github.com/rak3rman/homebase>

Passport UIC Shibboleth

February 2022 - June 2022 | A Nodejs-Express-Passport authentication strategy that works with the University of Illinois Chicago's Shibboleth single-sign on service. Extends the [passport-saml](#) npm module, but sets all the default options so that it works with the UIC Shibboleth Identity Provider (IdP). Built out an entire sample project using Vite, Vue 3, and Tailwinds along with a "Shibalike" emulator for local testing. Wrote extensive documentation and recorded a walkthrough video for others to understand how to use passport-uicshib.

Github repository: <https://github.com/rak3rman/passport-uicshib>

RAkerman Linker

May 2022 - June 2022 | A simple url shortener that can be deployed over multiple domains simultaneously. RAKerman Linker leverages the power of Nuxt 3 and Cloudflare Workers KV to handle a unified list of custom redirects on a global scale. Specify a shortened url along with a target url in the Cloudflare Workers KV interface, and this service will handle the rest.

Production site: <https://link.rakerman.com>

Github repository: <https://github.com/rak3rman/rakerman-linker>

Particlecord

October 2020 - January 2021 | Particlecord listens to the data stream from Particle.io devices and notifies the user when a particular event occurs. Think of Particlecord as an "API middleman" that filters a real-time data stream from Particle.io and sends smart push notifications through Discord. Devices can also be managed using the Discord bot by setting friendly names, changing alert frequencies, and outputting the status of any device.

Github repository: <https://github.com/rak3rman/particlecord>

RAkerman Pace Clock

October 2019 - December 2019 | Have you ever had to deal with 2 overpriced and outdated pace clocks breaking for seemingly no reason during swim practice in high school? Well, I did. (*drumroll sounds*) Introducing the RAKerman Pace Clock (RAPC), a state-of-the-art, multi-color, over-engineered digital clock system designed for pacing swim practices. The RAPC is essentially a strip of RGB leds (Neopixels) connected to a microcontroller (Particle Argon) that displays the time from 0:00 to 59:59 (mm:ss) over and over (in any color you'd like). It probably doesn't sound that cool, but trust me, it is a far cry from what it used to be.

RAkerman.com

March 2019 – Present | My personal website and blog. On this site you can read my blog posts, learn more about me, explore my technical projects, and so much more.

Production site: <https://www.rakerman.com>

Github repository: <https://github.com/rak3rman/liebling>