

Pat Goral

Full Stack Software Engineer

I'm a passionate problem solver with a lifelong interest in software and bicycles. Skilled in critical thinking and finding creative solutions, I have extensive experience solving complex problems from my time in the cycling world. I approach software development projects with enthusiasm and unwavering commitment to finding the best possible solution.

PROJECTS

- [Friedclay.com](#) - Adventure Race Leaderboard App, built with React, MongoDB, Express, HTML5, and CSS 3.
 - Implemented GPX file uploading and rendering on a map component, but encountered significant performance challenges, including slow front-end rendering and server-side memory overload. Successfully optimized the project to resolve these issues.
 - Created multiple parsing functions to convert data from GPX XML to polyline string. This reduced payloads from 280,000 lines for one upload to 14 lines.
 - Wrote a function to break the GPX read stream into batches to reduce memory use.
 - Published this solution as a NodeJs package: [gpx-to-encoded-polyline](#)
 - Reduced page render times from 15 seconds to less than one second and led to 70% faster upload times.
 - Perform regular updates to the app on a weekly basis, resulting in its successful use by participants of the Fried Clay 200k adventure race.
- [Stubcrud](#) - Event Registration App, group project built with MERN stack. I built the backend and worked closely with other developers to make an interactive product.
- [Service Ticket Manager](#) - Bike Shop Service Management App, built with vanilla JavaScript, MongoDB, Express, HTML5, and CSS3.
- [Crocs Machine](#) - Slot Machine App, built with vanilla JavaScript, HTML5, and CSS3

RELEVANT EXPERIENCE

General Assembly, Remote— *Software Engineering Fellow*
12/2022 - 3/2023

- 400+ Hour intensive Software Engineering Bootcamp
- Experience working with a team of developers to design and execute multiple projects.
- Remain informed of new technologies and methods used in the industry.

EXPERIENCE

Loose Nuts Cycles, Atlanta, GA— *Service Manager*

10/2017 - 12/2022

- Oversaw daily service and sales operations
- Responsible for managing inventory worth over 2 million dollars annually and optimizing workflow in a busy service department.

Atlanta, GA

He/Him

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[LinkedIn](#)

[GitHub](#)

SKILLS

JavaScript
React
HTML5
CSS3
MongoDB
Express
Mongoose
Python
Django
PostgreSQL

ACCOMPLISHMENTS

FreeCodeCamp JavaScript
Algorithms and Data
Structures Certification

Organize the annual **Fried
Clay 200k** endurance bicycle
race.

Completed the **ING Georgia
Marathon 3/2007**

Completed the **Huracan 300
off-road bicycle race 2017 &
2018**