Pat Goral

Full Stack Software Engineer

Passionate and dedicated problem solver with a lifelong interest in tinkering with software and bicycles. Skilled in critical thinking and finding creative solutions, honed through extensive experience in solving complex problems in the cycling world. Eager to apply these skills to software development and approach each project with enthusiasm and commitment to finding the best possible solution.

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He/Him
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LinkedIn
GitHub

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.

PROJECTS

- **Friedclay.com** – Adventure Race Leaderboard App, built with React, MongoDb, Express, HTML5, and CSS 3.

This project dealt with uploading a GPX file and rendering it to a map component. This led to a massive memory issue server side, as well as slow rendering on the front end. This required multiple parsing functions to break down the initial data payload and reduce it to only the necessary data. Finally, it is converted into an encoded polyline string. This reduced payloads from 280,000 lines for one upload to 14 lines. This worked, but the function was so memory intensive that it would crash the server. To solve this, there is a function on the read stream that processes the data in batches, and solves the memory issue. All of this took page render times from 15 seconds to less than one. This app is live and being used by actual 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

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.

SKILLS

JavaScript
React
HTML5
CSS3
MongoDb
Express
Mongoose
Python
Django
PostgreSQL

ACCOMPLISHMENTS

FreeCodeCamp JavaScript Algorithms and Data Structures Certification

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

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