

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.

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.
 - 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.
 - Reduced page render times from 15 seconds to less than one second and led to 70% faster upload times.
 - Consistently update the app on a weekly basis and it is currently being used 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

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

Completed the ING Georgia
Marathon 3/2007

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