JOHN FURLONG

Software Engineer

📞 (267)-884-6835   @ johnfurlong24@gmail.com   🔗 http://www.github.com/jfur1   📍 Boulder, CO

PROJECTS

Forte | Team of 6

📅 2019 - 2020

Worked with a team of 6 to design a web application that connects local music teachers and students. Users are able to find a match and schedule a lesson.

- Responsible for back-end integration and deployment via Heroku
- Implemented user registration and login with encrypted passwords
- Implemented reset password via email using JSON web tokens
- **Stack**: HTML5/CSS, jQuery, Node.js/Express, PostgreSQL, Git, AWS

my-portfol.io | Team of 2

📅 2021 - Ongoing

Developed a full-stack web application where users can host their portfolios.

- Responsible for architectural design, back-end integration, and database management via AWS
- Led daily scrum meetings and tracked project goals using Pivotal
- **Stack**: HTML5/CSS, React.js, Node.js/Express, PostgreSQL, Git, AWS

🔗 https://www.my-portfol.io

Pathfinding Visualizer | Team of 1

📅 2020 - Ongoing

Created a web application using React.js to visualize various pathfinding algorithms.

- Users can draw walls and run search algorithms like BFS, DFS, Dijkstra's, and Astar
- **Stack**: HTML5/CSS, React.js, Git, Pivotal

🔗 https://jfur1.github.io/pathfinding

DNS Name Resolution Engine | Team of 1

📅 07/2020

Multi-threaded application written in C which resolves domain names to IP addresses. Returns runtime and memory analysis using system calls.

- Requester/resolver threads share a memory buffer asynchronously to avoid deadlock via mutexes and semaphores

WORK EXPERIENCE

Software Developer

Phia Labs   📅 2020 - 2021   📍 Denver, CO

Created a custom WordPress plugin for a client written in PHP.

- Modified existing codebase to fix bugs and implement administrative dashboard - improved user engagement and overall performance
- Worked closely with client to deliver weekly progress in sprints

Server

Rosetta Hall   📅 2021 - Ongoing   📍 Boulder, CO

Currently working 40 hours per week as a server.

- Requires strong communication skills and multitasking

Server

Eureka!   📅 2019 - 2020   📍 Boulder, CO

Started as a host and was promoted to server. Worked 25 hours per week as a student.

SKILLS

Algorithm Design & Analysis   PostgreSQL

Data Structures   Machine Learning & AI

Git   Linux   Distributed Systems

Web Development   Operating Systems

EDUCATION

Bachelor's in Computer Science

University of Colorado at Boulder

📅 2016 - 2020

- Computer Science GPA: **3.42 / 4.0**

PROGRAMMING

C++

Python

SQL

JavaScript

React.js

HTML & CSS

STRENGTHS

👥 Interpersonal Communication

📖 Lifelong Learner

⚙️ Strong Multitasking

📅 Consistent and Reliable