Emily Bonar

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Seeking a software development role where I can apply extensive engineering and problem-solving skills to difficult challenges

Skills

Languages: JavaScript, TypeScript, HTML/CSS, Python, Java, LabVIEW, MATLAB
Software: React, Next.js, TailwindCSS, Node.js, GitHub, REST
Certifications: Certified LabVIEW Developer, Six Sigma White Belt

Work Experience

Participant – Recurse Center, Remote — January 2021 – Present

- Self-directed intensive learning experience working on a wide range of programming projects
- Ran meetings and directed groups in discussions

3D Printing LabVIEW Developer – Army Research Lab, Austin, TX — June 2018 – Present

- Developed process tooling and analysis with LabVIEW and MATLAB to increase model development and production through consolidating machine control and monitoring
- Translated 3D models into custom file format for printing using Python scripts

MATLAB Developer – Thomas Research Group, Houston, TX — February 2016 – January 2017

- Developed instrument control code in MATLAB to improve precision and data collection

Projects

TuneTester - emilybonar.com/TuneTester/ — October 2020

- Accesses Spotify REST API using serverless functions to display playlist and song data
- Created as a single-page application in React using reusable, hierarchical components

LookOutside – emilybonar.com/LookOutside/ — November 2020

- Uses Google Maps, OpenWeather, and Disease.sh REST APIs to create a summary of weather and COVID conditions in a given area of the US
- Built using React and TailwindCSS for the front-end and utilizing serverless functions for API calls

Twitter Clone – flibberty-gibbets.herokuapp.com/ — January 2020

- An asynchronous, database-driven messaging system with live updating
- Built using Next.js and TailwindCSS and a Heroku Postgres database for the backend

Education

Rice University, Houston, TX — Graduated May 2018

BS in Materials Science and Nanoengineering

Co-authored “In situ observations of cracking in constrained sintering” in the Journal of the American Ceramic Society, which earned a “Best Paper of 2018” award from the journal