# **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, HTML/CSS, Python, Java, LabVIEW, MATLAB

Software: React, TailwindCSS, Node.js, GitHub

Certifications: Certified LabVIEW Developer, Six Sigma White Belt

# **Work Experience**

## **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

### Materials Scientist - Additive Lab, Houston, TX

May 2017 – May 2018

Automated analyzing physical characteristics across thousands of photographs with ImageJ

# MATLAB Developer – Thomas Research Group, Houston, TX

February 2016 – January 2017

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

# **Projects**

# Nearest Named Color - emilybonar.com/NearestNamedColor/

July 2020

Calculates which of the 140 HTML named colors is closest to any given value in RGB space

### Sourdough Calculator - emilybonar.com/Sourdough-Calculator/

September 2020

- Personalizes bread recipes based on hydration levels of user's sourdough starter
- Uses data attributes to create custom tooltips that work on both desktop and mobile

#### 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 summery 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

## 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