# Emily Bonar

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

## 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 from G-code into custom CSV files using Python for them to be printed

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

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

## Projects

**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 United States
- Built using React and TailwindCSS for the front-end and utilizing serverless functions for API calls

**Twitter Clone** – flibberty-gibbets.herokuapp.com/                                      January 2021

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

**MusicalsFYI** - musicals.emilybonar.com/                                      February 2021

- Accesses Spotify REST API using a serverless function to display musical and song data
- Allows for sorting and searching through the musicals using an intuitive and responsive card-based interface
- Built as a single-page app with React, TypeScript, and TailwindCSS

## 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

## 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