

# LUKE WEILER

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## EDUCATION

**The Ohio State University**  
BS Computer Science and Engineering

Columbus, OH  
August 2021 - May 2024

## WORK EXPERIENCE

**Ohio Supercomputer Center**  
*Student Software Developer*

Columbus, OH / Remote  
February 2022 - Present

- Use Ruby on Rails to create a dashboard that displays information about the status of various supercomputer resources.
- Write and publish various features and bug fixes for the OpenOnDemand web app, a gateway enabling researchers to utilize the world's most powerful supercomputers.

**Monkeytype**  
*Open Source Contributor*

Remote  
April 2021 - August 2021

- Created the MongoDB database, Express.js API, and the connecting client code for Monkeytype.com, which is currently serving over 100k unique users every day.
- Immediately reduced costs by 70 percent and slowed the rate of increasing cloud service costs.
- Worked with the owner/lead developer and a more experienced professional to ensure a smooth deployment.

## SKILLS

Programming Languages:	Python, Javascript, Ruby, C/C++, HTML, CSS, Java, SQL, Dart, Pug
Frameworks:	React, Express.js, Ruby On Rails, Flask, Next.js, Flutter
Tools/Platforms:	Linux, Git, Relational Databases, MongoDB, Docker, Typescript, Nginx
::	VS Code, Microsoft Office, Firebase, Figma, Web Developer Tools

## CERTIFICATES

**JPMorgan Chase Virtual Internship**

August 2022

## PROJECTS

**Stem Player Online** *Javascript, Web Audio*

<https://stemplayeronline.com>

Created a web application that enables users to manipulate their music in a way similar to the popular Stem Player device created by Kanye West. Used by around 3000 people per month.

**3cards** *Javascript, React.js, Next.js*

<https://3cards.io>

Created a web3 application that allows users to create and share flashcard sets stored on the Arweave, a decentralized blockchain-like storage network. Winner in the Arweave Open Web Hackathon.

**mathgenerator** *Python, OOP, Github*

<https://github.com/lukew3/mathgenerator>

Created and maintain an open-source python package that enables generating a wide variety of math problems. Package has 90 stars on Github and around 500 downloads per month.

**Ideaspot** *Python, React, Flask, Nginx, MongoDB, Linux*

<https://ideaspot.org>

Created a website where users can store, share, search, discuss, vote on, and manage their ideas.

**Congol** *Javascript, Express.js, Pug, MongoDB, Node.js, Browserify, Socket.io, CSS*

<https://congol.net>

Created a website that allows users to play a version of Conway's Game of Life with 2 players competing live over the internet.

**Recolorbot** *Python, PRAW, REST API*

<https://github.com/lukew3/recolorbot>

Created a Reddit bot that colors black and white images using an AI image coloring API. Bot has colored images from over 100 posts.

**Flag Quiz** *Flutter, Dart*

<https://github.com/lukew3/flag-quiz>

Created a flutter app where users can test their knowledge of national flags.

**BeautifulVHS** *Three.js, Webpack, Javascript*

<https://github.com/lukew3/beautifulvhs>

Created a website that displays a moving, 3d rendering of old vhs covers.