Claire Boals

github.com/claireboals

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EDUCATION

Tufts University — Medford, MA
Bachelor of Science in Computer Science — *Sept. 2015 – May 2020*

Relevant Coursework
Data Structures, Algorithms, Web Programming, Computation Theory, Object-Oriented GUI, Machine Structure/Assembly

PROJECTS

Interactive MBTA Train Lines Map — Personal Project
Full Stack Engineer — *June 2021*
- **Technologies Used:** JavaScript, HTML, CSS, Google Maps API, MBTA API
- Designed and implemented responsive web app to display MBTA lines, stops, and updated train information.
- Implemented cache and utilized API filters to optimize and reduce necessary API calls.

Spotify Lyrics Search — Course: Web Programming
Full Stack Engineer — *TODO*
- **Technologies Used:** JavaScript, Express.js, jQuery, Bootstrap, MusixMatch API, Spotify API, Heroku
- Led small team to create, design, and implement web app that searches lyrics and returns playable Spotify links.
- Developed and optimized modules to query both APIs and translate response data to Spotify result.
- Analyzed front-end wireframes for technical feasibility and implemented responsive design for search results page.

Bisexual Resource Center Locator — Organization: Tufts JumboCode
Front-End Developer — *Jan. 2019 - April 2019*
- **Technologies Used:** JavaScript, React, Express.js, HTML, CSS, Google Maps API, Heroku
- Collaborated on Agile cross-functional teams to create web app that locates the nearest BRC and events.
- Implemented map search functionality and front-end design for home page and search bar.

Image Compressor and Decompressor — Course: Machine Structure/Assembly Language
Software Engineer — *Oct. 2018*
- **Technologies Used:** C
- Architected and integrated modules in a pair-programming setting to implement lossy image compression algorithm.
- Implemented complex integrated modules to pack, unpack, and quantize binary data.
- Ensured smooth module integration with rigorous automated and unit-testing strategies and composed thorough documentation of program architecture and design.

SKILLS

- **Languages**: Java, C, C++, JavaScript, HTML, CSS, Python, Ruby
- **Technologies**: Git, REST APIs, React, Node.js, Express.js, Bootstrap, Heroku, Netlify, Hugo, Shopify, WordPress

WORK EXPERIENCE

Freelance Web Designer and Consultant
Self-Employed — *Dec. 2020 - June 2021*
- Analyzed client needs to design and create websites using Shopify and WordPress, identified and instituted back-end tools to assist and track growth, effectively communicated all stages of development with clients at weekly meetings, provided support and educational demonstrations to assist clients in maintaining websites post-contract.

Design Studio Assistant
Tisch Library Digital Design Studio — *Sept. 2018 - May 2020*
- Troubleshot and solved hardware and software issues, assisted patrons with designing and printing large format posters, maintained computer lab space and recording studio.

Customer Support Representative
Tufts Technology Services — *May 2017 - Aug. 2017*
- Diagnosed, troubleshot, and solved hardware and software-related issues for customers, communicated solutions thoroughly to each customer, documented all issues and resolutions in detail, escalated issues when necessary.