Claire Boals

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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.

- **Technology 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.