

CS5610 Web Development Project 1 Homepage Design Document

By Margaret M Bertoni

Project Description:

The goal of this project is to design and implement a personal homepage website using HTML5, CSS3, and ES6+. The homepage will showcase my academic and professional history. The frontend framework to be used is Bootstrap 5+. At least three pages are required, two of which must be developed without vibe coding. The third page will be developed with vibe coding.

User Personas:

Persona 1- Recruiter:

- *Professional Background:* 5 Years as a Tech Recruiter.
- *Motivations:*
 - Quick vet candidates for interviews.
 - Efficiently fill open job postings.
 - Find and convince top candidates to apply.
- *Pain Points:*
 - High volume of candidates to review, but limited time in the day.
 - High stress from management to hire more employees.
- *Frustrations:*
 - Not being able to find detailed information about candidates.

- Want to be able to see the candidate beyond just the resume.

Persona 2- Prospective Manager:

- *Professional Background:* 5 Years as an Engineering Manager.
- *Motivations:*
 - To quickly learn about a candidate before an interview.
 - To see if a candidate's experience/background aligns with their team's needs.
- *Pain Points:*
 - Extremely busy on a project, so not much time for interview prep.
 - Limited information available on a resume.
- *Frustrations:*
 - Want to be able to see the candidate beyond just the resume
 - Don't have time to check through multiple sites (Google, LinkedIn, Github, etc).

User Stories:

Story 1- Recruiter:

As a recruiter, I want to be able to look at Margaret Bertoni's website to find out more information about her before deciding if I want to invite her to interview. I want to quickly find out about her work experience. If I have time, I will quickly check her academic experiences.

Story 2- Potential Manager:

As an engineering manager, I want to look at Margaret Bertoni's website to find out a bit about her before the interview. I want to quickly page through her work experiences and go in further detail if I find a related experience. It would also be nice to know a bit of personal background for the interview.

Design Mockups:

Homepage

Margaret M Bertoni

[Home](#) [Work Experience](#) [Academic Experience](#)



Short Bio

Margaret M Bertoni is a Masters in Computer Science Student at Northeastern University's Khoury College.

She is a proud MIT alum, having graduated in 2019 with a Bachelor of Science in Mechanical Engineering and Minor in Public Policy.

After MIT, Margaret spent a year in consulting at Sage Analysis Group before pivoting to Application Engineering at Formlabs, a 3D printing startup

Margaret spent the last 3 years before her masters working in Application Engineering/ Solutions Engineering/Customer Success at Lumafield, a industrial CT scanning startup. In her free time, Margaret enjoys Bar Trivia and Hiking. She's also an amateur screenwriter.

Fun Facts

Margaret actually has an IMDb credit from Executive Producing her brother's short film [Closing Shift](#)

At MIT Margaret was an NCAA Div 3 Athlete on the Women's Fencing Team.

Current Status

Margaret is currently looking for **Spring 2026 Co-ops, Summer 2026 internships or Fall 2026 Co-ops.**

Other Links

[LinkedIn](#) [Github](#)

Design Mockups: Work Experience

Margaret M Bertoni Home **Work Experience** Academic Experience

Highlight **Lumafield** **Formlabs** Clear

Lumafield: Advanced Solutions Engineer:
March 2024 - August 2024

- Used ilastik machine learning toolkit to develop a part segmentation model for a production application
- Learned Microsoft Azure AI Custom Vision to improve a classification model for a customer
- Provided technical support by troubleshooting hardware and software issues for customers

Formlabs: Application Engineer: Nov 2020 - October 2021

- Created a Google Sheets tool for cost and ROI analysis for production 3D printing applications
- Self-taught SQL to analyze lead data from Salesforce, evaluated content performance for the BD team
- Advised customers on 3D printing and 3D print optimization

Lumafield**Formlabs****Clear****Lumafield: Advanced Solutions Engineer:
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Note: When you click on a company button (Lumafield in this example) it will highlight that card in yellow. Hitting cancel will clear the highlight. By default, if you click another company name, it will also clear any existing highlight. This utilizes loading data from a json (Similar to Airbnb), but the highlighting feature (and the customization I made to the cards for them to load) is unique.

Design Mockups:

Vibecoded Academic Experience

Margaret M Bertoni

Home Work Experience **Academic Experience**

Margaret's Educational Journey

Click on each card to explore the details

Northeastern University
Masters of Science in
Computer Science
2024-2027

MIT
Bachelor of Science in
Mechanical Engineering,
Minor in Public Policy
2015-2019

NC School of Science &
Math
High School Diploma
2013-2015

Vibecoded with Claude's Sonnet 4 Model!

Margaret's Educational Journey

Click on each card to explore the details

Northeastern University
Masters of Science in
Computer Science
2024-2027

Awards:
MIT Delegate to the
Student Conference
on US Affairs at West
Point 2018
Activities:

NC School of Science &
Math
High School Diploma
2013-2015

Vibecoded with Claude's Sonnet 4 Model!

Note: When you click on a card/tile, it will flip over and show you information about that education. It has a scroll bar to allow you to scroll through different sections, like classes, awards and activities.