# Julia Howes

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## SUMMARY

I am a biomedical engineering graduate turned software engineer. My most impactful experiences during University helped to expose my appreciation for software and inspire a career shift, which I have pursued head-on since graduating in Spring 2020. I am eager to apply what I love doing to challenging and innovative projects that improve the lives of others.

## SKILLS

**Experience:**

- JavaScript          - Git/GitHub
- Python              - Bootstrap
- TypeScript          - Material UI
- React               - MATLAB
- HTML                - LabVIEW
- CSS

**Exposure:**

- C#                  - Express
- C++                 - MongoDB
- Angular             - SQLite
- ASP.NET Core        - SQL
- NodeJS

## ONLINE COURSEWORK

- Discrete Mathematics
- Data Structures and Algorithms
- Computer Architecture
- The MERN Fullstack Guide
- Build an App with ASPNET Core and Angular from Scratch
- The Complete Python Bootcamp
- Beginning C++ Programming
- The Complete SQL Bootcamp

## EDUCATION

**University of Minnesota – Twin Cities**, Bachelor of Biomedical Engineering
College of Science and Engineering - GPA: 3.4
September 2016 – May 2020

## EXPERIENCE

**Software Engineering Intern** at SuperWorld, Los Angeles CA
September 2020 – December 2020

- Enhanced MapGL-based feature on flagship product by overlaying dynamic and interactable user data to explore activity on the map, using React and Axios.
- Led an intern group to build and integrate a guided-tour feature for the flagship product, using React with TypeScript and Hooks, Bootstrap, and Material UI.
- Initiated improvement of overall product performance with tools including useContext, debouncing, and extracting and outsourcing reusable code.

**Front-End Engineer** at Objective-She, San Francisco CA
September 2020 – Present

- Redesigned subscription and volunteer forms and form validation with ReactJS and Redux to improve usability and boost website traffic.
- Integrated event information into website's homepage by using Gatsby queries to fetch Google spreadsheet data, and parsing the data.
- Collaborated with UI/UX designers to discuss implementation and design limitations.

**Computer Engineering Intern** at Monteris Medical, Plymouth MN
May 2019 – August 2019

- Developed LabVIEW software to triple the efficiency of an inspection process. The program initializes a serial connection, collects and plots a data stream, validates input from the inspector, and automatically generates a report.
- Implemented LabVIEW features to improve ease, accuracy, and speed (10x) of medical laser analysis. Script rapidly processes historical data points to calculate and index laser waveform characteristics.

## PROJECTS

**PetNet – A Peer to Peer Pet Adoption Web Application**

- Built a full-stack app with an Angular front-end written with TypeScript and using Bootstrap CSS components, a RESTful API with ASP.NET Core in C#, and a SQLite database.
- Features include user registration and login, secure authentication, session management, photo-upload with Cloudinary, private messaging, pagination, filtering, and sorting.

**Travel App – A Social App to Share Travel Experiences**

- Built a full-stack app with a React front-end written with JavaScript, a RESTful API with Node.JS and Express, and a MongoDB database.
- Features include user registration and login, and CRUD operations for posts.