

Julia Howes

Software Engineer

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Experience

Software Engineer Intern at CleverCounsel

May 2021 -- PRESENT

- Built a full-stack React/Flask feature that allows users to submit work hours for many days at once with a dynamic calendar interface. Sped up data input by about 10x.
- Implemented WebSocket feature to update users in real-time about pending backend processes.
- Integrated Flask-Marshmallow schemas to serialize SQLAlchemy models throughout the app, removing testing and maintenance overhead of serialization methods, and reducing related code by ~30%.
- Extended routes with AWS S3 upload functionality along with mocked S3 testing.

Front-End Engineer Intern at Objective-She, San Francisco CA

September 2020 -- February 2021

- Built a "Discover" page for main website with videos and details of past events, using React and Gatsby. Collaborated with designers to discuss implementation and limitations.
- Redesigned state management and validation for volunteer forms with React and Redux, speeding up form completion time by about 25%.

Software Engineering Intern at SuperWorld, Los Angeles CA

September 2020 -- December 2020

- Enhanced MapGL feature on flagship product by overlaying dynamic user data to explore activity on the map, using React with TypeScript.
- Guided a team of 4 to build a guided-tour feature for the flagship product, using React and Material UI.

Education

Rithm School -- San Francisco, CA

February 2021 -- June 2021

Immersive Full Stack Web Development Bootcamp

University of Minnesota -- College of Science and Engineering

September 2016 -- May 2020

Bachelor of Biomedical Engineering | 3.4 GPA

Skills

Experience: JavaScript | Python | React | Node | Express | Flask | PostgreSQL | ORMs | SQL | Integration & Unit Testing | jQuery | Git | CSS | HTML | Bootstrap

Exposure: Angular | TypeScript | MySQL | AWS S3 | MongoDB | ASP.NET Core | C# | C++

Projects

Warbler (WIP) -- A Microblogging Web App

[Link to Site](#)

- Worked with a partner to extend a Flask/PostgreSQL/Jinja app with new features including likes, admin privileges, private accounts, and user blocking, along with Python integration testing.

Travel App -- A Social Web App to Share Travel Experiences

[Link to Repo](#)

- Built a full-stack web app with a React front-end, Node/Express RESTful API, and MongoDB database.