

Garrett Halstein

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Versatile fullstack developer with a passion for building, teaching and learning. Experience in Java, Ruby on Rails, JavaScript, React, Redux and a background in Computer Science and Chemistry. I discovered software development through my university classes and have enjoyed challenging myself with projects since. I enthusiastically bring strong skills in team-building, communication, debugging, data analysis and leadership that help progressive companies succeed. My strong background in STEM, along with my creativity, has led me to love computer science and building software.

TECHNICAL PROJECTS

Furbook - [Github](#) | [Demo](#)

Social media platform for your pets based on Facebook.

- + Developed a Rails API backend with endpoints for users, posts, comments, pictures, friendships and messages.
- + Utilized JSON Web Tokens and local storage to store encrypted user information client-side and bcrypt server-side.
- + Used Active Storage, Google Cloud Platform and web services to upload and display media throughout the application.
- + Managed state and user experience with React and Redux for scalability.
- + Implemented the user interface with fully CSS styling.

Chello - [Github](#) | [Demo](#)

A clone of the list-making application, Trello, which is used to manage the life cycle of projects and the distribution of workloads.

- + Developed a Rails API backend with endpoints for users, projects, lists and tasks.
- + Utilized JSON Web Tokens and local storage to store encrypted user information client-side and bcrypt server-side.
- + Utilized components and their life cycles, props and states via React's structural hierarchy for scalability.
- + Implemented the user interface with fully CSS styling.

myStocks - [Github](#) | [Demo](#)

Stock tracking app with real time data.

- + Developed a Rails API backend with endpoints for users, watchlists and stocks.
- + Developed the frontend reactivity and user experience completely in vanilla Javascript.
- + Scraped a stock API to provide accurate real time data upon every stock requested.
- + Implemented the user interface with fully CSS styling.

TECHNICAL SKILLS

Java, React, JavaScript, Ruby, Rails, SQL, Redux, C++, HTML, CSS, Git, JSON, Markdown, Mathematica, PostgreSQL & Final Cut.

EMPLOYMENT HISTORY

Medical Research Center at Emory University, Atlanta, GA

Vascular Disease Researcher, 9/2017 - 5/2019

- + Conducted and published medical research on the regulatory roles of protein families.
- + Studied the CCN proteins' effect on vascular diseases such as aortic aneurysms and designed protocols based on the results.
- + Implemented PCR, protein BCA analysis, western blotting and chemiluminescence scanning for protein analysis.
- + Analyzed cell pigmentation by scanning cell photos and quantified the images on Fiji (Java based software).
- + Found that CCN3 can be exploited as a therapeutic target for the treatment of nonalcoholic steatohepatitis.

Emergency Responder Products, Old Bethpage, NY

Web Developer & Customer Service, 5/2017 - 8/2017

- + Maintained the static website by updating inventory, improving the user interface and experience and increasing responsiveness.
- + Collaborated with the web development team on using newer web technologies to move the site from static to dynamic.
- + Increased the customer service satisfactory rating and improved the sales retention rate by over 12%.

Chemistry Department at Emory University, Atlanta, GA

Teaching Assistant, 1/2016 - 5/2017

- + Collaborated with the instructor to help improve students' understanding of quantitative analysis.
- + Prepared laboratory experiments for students and guided them through demonstrations.
- + Designed new labs for future classes and ran quantitative tests on them to determine the best approaches.

EDUCATION

Flatiron School - Brooklyn, NY - 6/2019 - 9/2019

- + Immersive fullstack software engineering program in frontend JS with React and Redux libraries and Ruby on Rails backend.

Emory University - Atlanta, GA - 8/2015 - 5/2019

- + Bachelor of Science in Chemistry with a 3.6 GPA, Dean's List.
- + Relevant courses: Computer Science I/II, OOP-Methodologies, Data Structures, Algorithms, Database Management, Linear Algebra, Multivariable Calculus, Calculus based Physics I/II, and Quantum Mechanics.