

# Henry Heffernan

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## Education

**Rensselaer Polytechnic Institute**  
**Bachelor of Science in Computer Science**

**Troy, New York**  
**Fall 2018 - Spring 2022**

Relevant Coursework: Data Structures, Intro to Algorithms, Foundations of Computer Science, Software Design and Documentation, Principles of Software, Database Systems, Intro to Artificial Intelligence, Network Programming, Operating Systems, Programming Languages, Computer Organization.

## Experience

**Hover**  
**Front End Engineer**

**hover.gg**  
**Summer 2020 - Fall 2021**

Targeted towards online content creators and streamers looking to build a brand, Hover is the home of over 150K users. Written in Typescript using React, React-Native, Framer, Express, and Redux.

- Architected and engineered the vertical scrolling discover player which, at peak usage, was responsible for generating over 600,000 views across 20,000 active users.
- Designed and implemented features to increase app usability and user experience while ensuring the quality, maintainability and scalability of the front end as the user base grew by over 50,000.
- Coordinated a major refactor targeted towards app optimization and performance resulting in a smoother user experience and accomplished by eliminating redundant re-renders and API calls by over 50%.
- Directed and executed an internal migration of 3 individual repositories to a single mono repository, reducing overhead for developing new features, fixing bugs, and managing dependencies.
- Built the website with React and shared mobile app components allowing users to access a multitude of app interactions entirely on the web, resulting in over 700,000 total site visits.

## Projects

**3D Interactive Portfolio Website**  
**Creator and Sole Developer**

**henryheffernan.com**  
**Spring 2022**

Designed, engineered, and deployed this portfolio website from scratch using React, Three.js and AWS. Enjoy the unique and immersive 90s inspired experience by visiting [henryheffernan.com](https://henryheffernan.com).

**BRACS**  
**Team Lead and Front End Engineer**

**bracs.co**  
**Fall 2021 - Spring 2022**

Supervised and developed the front end of [bracs.co](https://bracs.co), a beautifully simple and effective bracket creation and management engine. Written in Typescript using React and deployed using AWS Elastic Beanstalk.

- Managed the project and team members by conducting 2 stand-ups weekly.
- Architected bracket view UI using React Flow and custom bracket data types built from binary trees.
- Created conversion algorithms to serialize bracket tree data to allow for saving in the cloud.
- Implemented bracket generation utilities which employ gray code for proper team seeding and placement.

## Skills

**Language Proficiency**

Python • Typescript • JavaScript • Java • C++ • C • C# • SQL • Haskell • HTML5 • CSS3 • PHP

**Web Development & Frameworks**

React.js • React Native • Three.js • Redux • Node • Express • Jest • Framer • React Navigation