CHRIS HONG

SKILLS
JavaScript, ES6, React, Redux, HTML5, CSS3, Ruby on Rails, MongoDB, Node.js, Express.js, SQL, Git, Python, Webpack

PROJECTS
DisGuy | *(Ruby on Rails 5, React/Redux, JavaScript, ActionCable/Websockets, HTML5, CSS3, Webpack)*   **live** | **github**
A full-stack, single-page web app clone of Discord (a web communication platform)
- Leveraged Rails Action Cable and Redis to establish web-socket connections and stream messages for live-chat.
- Incorporated custom frontend restrictions and validations to avoid unnecessary AJAX requests.
- Utilized withRouter to obtain information needed directly from the url path and avoid requesting data through multiple layers of components.

TracNova | *(MongoDB, Express, React, JavaScript, Node, HTML5, CSS3, Nodemon)*   **live** | **github**
A collaborative MERN stack app where the user can track their habits and see correlations
- Employed CSS3 Flexbox for flexible layouts and visually appealing designs.
- Built a secure user authentication system, utilizing Bcrypt to hash and salt passwords, strengthening protection of user data.
- Utilized Passport to authenticate the user's json web tokens before allowing them to make changes to documents in their accounts.

Geese Shooter | *(JavaScript, HTML5, CSS3, Webpack)*   **live** | **github**
A side-view 2D platform shooter game built using Canvas and Vanilla JavaScript
- Implemented HTML Canvas to dynamically render 2D shapes and bitmap images to create visually compelling background and game characters.
- Incorporated a custom drawImage function to render different frames of the source image at calculated timepoints, creating smooth and visually appealing animation for game characters.
- Attained a communication network with requestAnimationFrame, collision detection, and custom functions between the main character and surrounding features for an interactive gameplay.

EXPERIENCE
Research Associate I
Biotium, Inc.   Feb 2019 - Jan 2021
- Performed >300 Bioconjugation reactions for production and research, resulting in 98% customer satisfaction.
- Executed Quality Control tests weekly for outgoing products using lab techniques including ELISA, HPLC, Gel electrophoresis. Achieved 95% pass rate, resulting in viable product launch.
- Conducted protein stability studies on over 100 chromophoric conjugates, presented research results weekly to the board members, and assisted the launch of 3 new products with >150% brightness level.

Operations Assistant
Karius, Inc.   Aug 2018 - Sep 2018
- Leveraged SQL queries to preload data and generate graphical reports for the lab team, allowing better visualization of the research progress for non technical company members.
- Processed internal orders and shipping labels for NGS reagent & other research accessories.
- Sorted all incoming mail including interoffice mail, packages and delivered to appropriate personnel, resulting in >10% increase in productivity.

EDUCATION
AppAcademy - *Highly selective full stack web development program with a 3% acceptance rate.* Graduated 2021
University of California, Davis - *BS Pharmaceutical Chemistry.* Graduated 2018