

SKILLS

JavaScript, ES6, React, Golang, HTML5, CSS3,, Node.js,, SQL, Git, Python, Ruby on Rails, Nuxt.js, Vue.js, Webpack

EXPERIENCE

Backend Service Engineer

Illfonic, LLC.

Sep 2021 - Present

- Refactored and implemented new features on the company internal Dashboard with React, other JavaScript libraries, and Semantic UI Framework.
- Developed Frontend web mock-ups using Nuxt.js and Vue.js Frameworks, streamlining the early-stage website creation process for Illfonic's game consumers and enhancing overall design clarity and efficiency.
- Updated and maintained codes in Golang microservices, improving overall performance, scalability, and reliability of core backend systems.

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.

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.

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.

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