

# Milner Chen

## Software Engineer

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## Skills

JavaScript, React.js, Redux.js, Ruby, Rails, HTML5, CSS3, Git, PostgreSQL, SQL, Canvas, AWS, Python, Java, Node.js, Express, MongoDB, Agile

## Projects

### Barnes & Nobel (JavaScript, React / Redux, Ruby / Rails, HTML, CSS, PostgreSQL, AWS)

[Live Site](#) | [Github](#)

*A full-stack single-page Barnes & Noble clone where users can browse items by category and add them to cart*

- Implemented shopping cart by utilizing **localStorage** in order to persist information across browser sessions, allowing users to access shopping cart functionalities regardless of their logged in status
- Configured the **Rails API** create route to conditionally handle either create or update actions to cart items, removing the need for redundant logic in the reducer
- Connected Rails backend to **AWS S3** for media storage, leveraging **AWS's** security and reducing application load time

### Cat-Lector (JavaScript, Canvas, HTML5, CSS, Webpack)

[Live Site](#) | [Github](#)

*A Javascript platform game where users traverse through a map and collect items in a specified order*

- Integrated keystroke event listeners with gravity and friction logic, creating fluid and realistic character movement
- Leveraged Canvas API to create an animation loop that only calls the animation frame to perform an update once the system is ready to repaint, allowing for smoother and more efficient animation
- Implemented collision detection to determine behavior based on class, dynamically updating the state of all related objects and rendering those changes

### STACK (MongoDB, Express, React, Node, HTML, SCSS)

[Live Site](#) | [Github](#)

*A MERN stack app that allows users to connect with others through similar interests and availability*

- Collaborated with team members using **Agile** methodology and **Git** feature branch workflow to increase efficiency by allowing developers to quickly identify, test, and implement changes
- Constructed **MongoDB** models to structure **NoSQL** documents, validations for error handling, and seed data of the backend framework
- Built **React** components that allow users to interact with and alter **Redux** state, as well as reducers that transfer frontend data for processing in the backend

## Relevant Experience

Essense Partners

### Web Development Intern

Sept 2022 - Jan 2023

- Translated designs and assets into responsive PHP/HTML/CSS pages in WordPress, resulting in pixel-perfect web pages that cater to popular device ratios
- Leveraged the **Gatsby.js** framework's SSG capabilities to set up a prototype, single-page microsite that pre-renders pages at build time, allowing for a faster website and a more performant user experience
- Maintained existing WordPress pages by updating layouts, text, and media content, and troubleshooting bugs in production, development, and deployment

## Education

### App Academy

April 2023

Immersive software development course with a focus on fullstack web development.

### Stony Brook University

May 2022

Bachelor of Science in Information Systems

- *Specialization: System and Network Administration*