# Qixiang Chen

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## SKILLS

JavaScript, React.js, Ruby on Rails, Ruby, Redux, HTML5, CSS3, jQuery, PostgreSQL, Java, Python, C, C++, MongoDB, Github, Express.js, Node.js, SASS, RSpec, Heroku, AWS S3, Webpack, Mongoose, SQLite3

## PROJECTS

**Video Night**                                                                                                       Live Site | Github

*A video-sharing platform inspired by Youtube built using Ruby on Rails, React, and Redux*

- Incorporated AWS S3 to store image and media uploads in the cloud, reducing server load time and improving the scalability of video services.
- Utilized MVC architecture with Rails polymorphic associations for likes on videos and comments to produce DRY code, improving scalability, and reducing the number of required tables by 20%.
- Implemented a custom user authentication pattern with Bcrypt to store the hashed password in the database and using Secure Random module to generate and store session cookies on the browser to ensure persistent login.
- Employed CSS3 Flexbox along with media queries to produce a dynamic and flexible layout and created custom modal framework using React component architecture allowing for efficient development of new forms.

**Coin Explorer**                                                                                                     Live Site | Github

*An interactive platform game made using JavaScript and HTML Canvas*

- Utilized HTML5 Canvas and JavaScript in order to render complex levels and character sprites for end user interaction.
- Designed custom physics engine with velocity and gravity, leveraging conditional logic and Object Oriented Programming techniques to produce intuitive character movement and interactive gameplay.
- Implemented collision detection algorithm for sprite characters by integrating with keystroke event listeners to predict future player movement and to re-render the character to a previous position before the collision occurs.

**Minion Wars**                                                                                                       Live Site | Github

*A digital token collecting site built using MongoDB, Express, React, and Node.js*

- Designed user authentication by encrypting user details with JSON Webtoken to be used with Axios to be decrypted with JWT-Decode library so that user information is securely transmitted to the database.
- Managed proper git workflow, handled merge conflicts, and assisted backend team with model validations, and frontend team with redux presentational components, ensuring deadlines are met for each feature.
- Adapted mongoose library to connect to MongoDB Atlas and included Validator.js library to check model validation for the inclusion of email and password upon login.

## EXPERIENCE

**Restaurant Cashier**

*Bo Hua Inc,* May 2019 - Nov 2019

- Demonstrated proficiency in answering and responding to hundreds of calls a night. Addressed concerned/upset customers rapidly through logical and analytical thinking.
- Ensured that each customer received outstanding service by providing a friendly and supportive environment.
- Consistently praised by management for attention to detail, exemplary customer service delivery, and willingness to assist coworkers with their tasks and duties.

**Teaching Assistant**

*Brooklyn Elite Center*,  May 2015 - Aug 2015

- Assisted teaching staff in preparing the classroom and lesson plans and kept students engaged, motivated, and focused during in class lessons.
- Engaged ESL students on an individual basis and provided valuable feedback on their classwork and homework, resulting in an improvement of more than 10% of their grades.
- Maintained a clean and safe workplace environment and ensured the full safety and security of students in the classroom and during field trips.

## EDUCATION

**App Academy -** Immersive software development course with 1000-hour curriculum and < 3% acceptance rate  (March 2020)

**Rensselaer Polytechnic Institute -** *Bachelor of Science, Major in Computer Science, Minor in Economics* (May 2019)