# YUNG CAI
## Software Engineer

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**SKILLS:** JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, Test-driven development, Object-oriented programming

## PROJECTS:

**Somashare**   *MongoDB, Express.js, React/Redux, Node.js*                                                      live | github

A MERN-stack social media application allowing users to share, discuss, and discover external educational resources

- Led backend development with a team of 4, and collaborated with frontend through use of Axios to create rich features such as search by keyword or category and enhanced user profiles
- Handled user authentication with Express and BCrypt to handle the routing and requests from the front end and response from the server and database, allowing for streamlined foundation for building out the whole application
- Collaborated with frontend team to adjust for errors and design questions using Git workflow, to produce quick results with effective and efficient workflow
- Implemented React Select library to allow search by topics via keyword or select via dropdown, creating a smooth user rich browsing experience

**VacationsAway**   *Ruby on Rails, ReactJS, Redux, PostgreSQL, Heroku, HTML/CSS*                          live | github

A functional full-stack clone of AirBnB where users can book listings and write reviews of their favorite stays

- Utilized Google Maps API to filter location based on listings and user interactions with the map, creating a seamless, dynamic, user experience
- Saved images on AWS S3 and used Rails ActiveStorage to associate them with stays in the database, allowing for scalable removable storage
- Managed scheduling reservations through custom transactional database operations using Active Record and PostgreSQL, allowing for a smooth and lightweight booking experience
- Implemented CRUD functionality through RESTful routes to allow users to read, create, edit, and delete reviews for listings they've stayed

**IcePuck**   *Javascript, HTML5 Canvas, SCSS*                                                                          live | github

A Javascript browser game built with HTML Canvas that mimics an arcade style air hockey table

- Incorporated HTML5 Canvas and pythagorean theorem to create sphere on sphere/sphere on rectangle collision detection, to simulate an air hockey environment
- Used SCSS/Javascript animations to design board, shapes, and create movement in a 2D fashion, leading to realistic arcade-style gameplay
- Carried out AI computer actions through functions that control the rink border, enabling the computer-controlled opponent to automatically hit the puck

## EDUCATION:

AppAcademy - *1000-hour immersive full-stack web development intensive with <3% acceptance rate*          2021

StonyBrook University - *BS Biology*                                                                                          2009 - 2013

## EXPERIENCE:

**Software Engineer**

*Brillio*                                                                                                                        May 2022 - Present

- Implemented robust and scalable RESTFUL API services against databases such as SQL/Postgres
- Used Agile methodologies for delivering software along with Open Source tools such as Jira, Jenkins, Gitlab
- Experience with Node.js/Java in cross platform development using microservices and architecture design

**Cook**

*Speedy Romeo*                                                                                                              Aug 2017 - Mar 2020

- Measure ingredients and seasonings to be used in cooking, creating efficiency from back to front of house flow
- Set up workstations and ingredients so that food can be prepared according to recipes, complying with nutrition and sanitation guidelines

**Pharmacy Technician**                                                                                                  Dec 2013 - May 2016

*Vita Health Pharmacy*

- Maintain records by recording and filling physician's orders and prescriptions
- Organize medications for pharmacist to dispense by reading medication orders and prescriptions