

# Christina Yuen

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## SKILLS

- Front-end: JavaScript (ES6), React, HTML, CSS, jQuery, Semantic UI
- Back-end: Node.js, Express, MySQL, PostgreSQL, Sequelize, MongoDB, Mongoose,
- Developer Tools: Jest, Enzyme, Mocha, Chai, Travis CI, Git, Webpack, Babel

## PROJECTS

**PlanCake** – Collaborative social event planning website to discuss ideas, create itineraries and organize tasks

- Tech stack: React, PostgreSQL, Node.JS, Express, Sequelize, Socket.IO, AWS - Relational Database Service
- Designed system architecture and schema design to ensure cohesive team vision and optimize data flow
- Created web interface using modularized React components with backend integration via RESTful APIs
- Built database infrastructure using Sequelize and deployed database on AWS - Relational Database Service
- Integrated Gmail API to be able to send users invitations to events and redirect them to the website
- Implemented the ability to provide real-time updates of user activity using web sockets

**PicWorthy** – Website to share and discover new picture-worthy places located around the world or current location

- Tech stack: React, Node.JS, Express, MongoDB, Mongoose, Google Maps API, Imgur API, Passport
- Implemented a photo gallery with an endless horizontal scroll using a circular array via modular arithmetic
- Created references within MongoDB to avoid double storage and allow editing of referenced item in the future
- Designed application wireframe and mockups to prioritize user-interface and user-experience
- Led a team of engineers using scrum methodology to maximize team efficiency to build more quality features

**Code Fight Club** – Game website for programmers to compete and solve coding challenges in real-time

- Tech stack: Socket.IO, React, Node.JS, Express, MongoDB, Mongoose
- Contributed to open-source game by implementing multiplayer support using Socket.IO
- Advanced game by creating a synchronized countdown timer with scalability in mind to reduce load on server
- Designed and developed a virtual waiting room with real-time chat support before a game begins

## PROFESSIONAL EXPERIENCE

**Nanovision, Inc.** – Mechanical Engineering Consultant

2017

- Created a detailed one-to-one scale 3D CAD model of a retinal prosthesis in SolidWorks
- Determined and redesigned weak points after analyzing simulated stiffness and stress studies

**Century Design, Inc.** – Mechanical Design Engineer

2016-2017

- Designed new components and safety guards for composite manufacturing machines
- Organized over 500 interrelated files with version control in an easy to navigate and searchable file structure

**Hawk Ridge Systems** – Technical Support Engineer

2015-2016

- Maintained a high 99% customer satisfaction rate through effective communication and patience
- Awarded Support Rookie of the Year for outstanding performance

## EDUCATION

**Hack Reactor**, Certificate in Advanced Software Engineering and Scholarship Recipient

2018

**University of California, San Diego**, B.S. Environmental Engineering

2014

- Computational Methods in Engineering: Used Matlab to devise efficient numerical algorithms and interpolations
- C/C++ Programming: Applied various data structures to numerical problems and linear algebra concepts