

Christina Yuen

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SKILLS

- Front-end: JavaScript, React, HTML, CSS, jQuery, Semantic UI
- Back-end: Node.js, Express, MongoDB, Mongoose, MySQL, PostgreSQL, Sequelize
- 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
- Integrated Gmail API to be able to send users invitations to events and redirect them to PlanCake
- Implemented web sockets to show all active and inactive users that belonged to a certain event in real-time
- Created database infrastructure using Sequelize and deployed database on Amazon Relational Database Service
- Set up Travis CI for continuous integration and wrote unit tests using Jest and Enzyme

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