STEPHEN R. CHEN

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PROJECTS

Productivity RPG   Github | Live   2015
To-do list app that treats your life like a game. Inspired by Habitica.
- Single-page React.js app built using Flux architecture on a RESTful Rails architecture
- Renders, positions, and layers original sprites by utilizing Sprite.js

Janken (Ro Sham Bo)   Github | Live   2016
Dynamic spin on the classic game Rock-Paper-Scissors built in JavaScript for the browser
- Renders graphics using HTML5 Canvas
- Uses vector algebra to detect collision between moving triangles and squares

C++ Flight Simulator   Github   2014
C++ powered Flight Simulator usable in the terminal
- Extracts data from .dat, .txt, and .csv files using different stream library functions
- Calculates all traffic to, from, and between airports
- Determines the most cost efficient plane to to fly between 2 airports

SKILLS

C, C++, Matlab, Ruby, Ruby On Rails, Git, SQL, Active Record, HTML, Javascript, CSS, Bootstrap, jQuery, AJAX, React, Flux

EDUCATION

App Academy, San Francisco, CA   October 2015- January 2016
Immersive, full-stack web development course (acceptance rate < 5%)

University of California, Davis   Graduation: September 2015
BS in Mechanical Engineering
Related coursework: Software & Object-Oriented Program (C++), Programming & Problem Solving (C), Discrete Math for CS, Engineering Problem Solving (Matlab), Mechanical Systems Design Project, Prof Responsibilities Of Engineers

RELEVANT EXPERIENCE

Mechanical Systems Design Project, *Design Team Member* ~~Davis, CA~~   Fall 2014- Winter 2015
- Worked closely with project sponsor, Trinity Highway Products, LLC, to discuss company needs
- Met regularly with 4 other students to design a $2500 value tension meter for under $500
- Created assemblies and drawings of individual parts using 3D modeling software (Solidworks, AutoCAD) including descriptions and cost of materials used
- Designed and tested circuits that implemented a battery, arduino, load cell, and LCD

- Wrote code in C that would display data obtained from arduino and load cell onto the LCD

UC Davis Academic Technology Services, *Computer Room Consultant*   September 2013- January 2015
- Assisted faculty in setting up educational software and hardware for classes
- Provide faculty, students, and staff with computer consulting and troubleshooting
- Perform opening/closing procedures of campus computer rooms at designated times