Peter Hua

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Github   LinkedIn   Portfolio

PROJECTS

Traksana   Live | Github
Team-working app inspired by Asana
- Single-page Backbone app built on RESTful Rails API
- Thorough front-end architecture and nested associations provide dynamic and content-rich UX
- Enlists Ajax calls to fetch search results on keydown and create database entries through many-to-many associations
- Implements file upload via AWS S3 and Facebook login via omniauth API; supports multiple device sign-ins for same user through custom sessions table

BrickFace   Live | Github
Brick-breaker with face detection
- Integrates refactored facial recognition library to generate gameplay from user webcam
- Asynchronous face detection runs parallel to gameplay in the browser, and passes through custom smoothing functions and frame preprocessing to eliminate jerky movement and protect against false positives
- Renders on two HTML5 Canvas elements, and uses trig functions and vector math to determine escape trajectories

Cellular Warfare   Live | Github
Part cellular automaton sandbox, part Snake
- Browser game written in JavaScript; renders every 75ms by re-assigning classes on HTML elements, receives user inputs through jQuery
- Procedural generation of friendly and enemy cells that propagate via modded Game of Life rules
- Increases user responsiveness via command queue and turn preprocessing

Chess   Github
CLI implementation of the classic game written in Ruby
- Implements multi-level inheritance, modular extension, and other OO best practices
- Computer player takes pieces when possible

TECHNOLOGIES

Ruby   Javascript   Rails   Backbone.js   jQuery   SQL   Git   HTML   CSS   VBA

EDUCATION

App Academy   **New York, NY**
Intensive full-stack web dev program, acceptance rate < 5%   *Jul - Oct 2015*

Wharton School, University of Pennsylvania   **Philadelphia, PA**
Bachelor of Science in Economics, Finance and Marketing Concentrations   *May 2009 - 2013*
- Cumulative GPA: 3.70/4.00, *magna cum laude*
- Honors: Wharton Marketing Establishment EVP, Traders Trophy National Finalist & Top Earner

EXPERIENCE

Deutsche Bank   **New York, NY**
Trader, Commercial Mortgage-Backed Securities   *May – Aug 2012, Jul 2013 – Jul 2015*
- Conducted extensive research to model mortgages for modification/default risk, contributing to over 16% RoE in 2014 between team of 4 traders (#1 across the Street)
- Oversaw $200 million of commercial mortgage bonds and drove $750 million of volume in 2014 across 40+ clients (1 of 2 analysts in class of 20+ to manage own portfolio)
- Built system to decompose P&L into line-item drivers and suggest intelligent hedges; provided greater risk transparency and saved 60 minutes of closing time daily across the desk