

Peter Hua

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[Github](#) [LinkedIn](#) [Personal Site](#)

PROJECTS

Traksana

[Live](#) | [Github](#)

Lite version of Asana, popular "teamwork without email" webapp

- 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 paddle movement from user webcam
- Asynchronous facial detection runs parallel to gameplay in the browser, and passes through custom smoothing functions to eliminate jerky movement and protect against false positives
- Renders on 2 canvas objects, 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