Kevin Chou | Software Developer

t: 650.455.9288 | e: this.kevinchou@gmail.com | a: San Francisco, California | [Website Portfolio](#)

Work Experience | Backend Data, Actuarial Science   2016 - 2019

Willis Towers Watson | Software Developer | Visual Basic, Fortran, SQLite3, ORM, TDD

- Develop framework Quantify, a data management and valuation software; responsible for creating custom codebases for client's with complex plans and data & to revamp/maintain codebases & data pipelines for batch processing into analytics database
- Program logic to test/validate data, apply data assumptions, calculate liabilities & produce financial reports **improved system's reliability of producing consistent results
- Convert programming from legacy systems to new systems & build framework using backend/database technologies **improved system's maintainability for team
- Review/refactor code for accuracy, readability and time-efficiency **improved system's scalability with increasing size of data; reduced runtime for a codebase from 12 to 4 hours
- Create documentation for using programs, design limitations and ongoing technical issues

Freelance Engineering Projects   2015 - 2019

Automation & Web-Scraping | Visual Basic, jQuery

- Code script to scrape parcel & product data from DPD International Tracking Service, Farfetch, Net-a-Porter & SSENSE via XML HTTP requests **cut daily time used from hours to minutes
- Code script to update the master inventory data from daily orders data
- Develop program to scrape data for 400+ stocks and options from Yahoo and Google sites, to screen and make trade/hedge decisions according to Black-Scholes theory

Full Stack Web Projects   2019 - 2020

[Want.com](#) | JavaScript, postgreSQL, Ruby, Rails, React, Redux

- Clone the style and functionality of the e-commerce website Wish.com; features include adding reviews, editing items to shopping cart and searching products by name & theme
- Implement infinite-scroll to fetch products from server to mimic index page

[3d-Minesweeper](#) | JavaScript, ThreeJS, ThreeJSx, Canvas

- Utilize a graph data structure and recursive search algorithm to identify adjacent vacant cubes
- Integrate ThreeJS libraries to apply custom event handlers with raycasting to interface cube objects

[Multi-Go](#) | JavaScript, MongoDB, React, Redux, Node.js, Canvas, WebSockets

- Create a game server to play variations of the classical board game Go; custom settings include variable number of players, board sizes and grid layouts
- Synchronize lobby page, chat messaging and move coordination via websocket and server requests

Skills | React.js, Redux, JavaScript, Python, Ruby, Rails, SQL

Education | University of Southern California | Bachelor of Arts in Economics | Los Angeles, CA