Kevin Chou | Full-Stack Developer

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

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

Work Experience
Actuarial Software Developer | 2016 - 2019 | Visual Basic, Fortran, SQL, SQlite3, MS Access, ORM, TDD
Nicolay Consulting Group | San Francisco, CA | 2018 – 2019
Willis Towers Watson | Dallas, TX | 2016 - 2018
- Revamp/Maintain client codebases & databases to improve reliability, maintainability and scalability of system
  - Code programs to handle data, calculate liabilities and produce financial reports
  - Design and implement processes to import/export, test/validate and apply assumptions to data
  - Review and refactor code for accuracy, readability and time-efficiency **cut run-time from 12 to 4 hours
  - Convert valuation programming from legacy systems to new software systems & spreadsheet data/functions to backend/database technologies
  - Created documentation for team to explain how to use programs, limitations of programmatic design and issues technically/actuarially to be aware going forward
- Develop in strict ACID & Transactional environment due to analytical & calculative nature of actuarial science
- Perform annual retirement valuations in accordance with ERISA, FASB, GASB, IAS19
  - Analyze results via data reconciliation, data testing/validation and gain/loss analysis
  - Develop and analyze results of forecasting projects, experience studies and special accounting events
- Train analysts on actuarial concepts, technical & programming skills, accounting standards & IRS legislation
- Recognized by peers by vote for individual contributions in 2017

Web Development Projects
[Want.com](#) | JavaScript, postgreSQL, Ruby / Rails, React / Redux, Ajax, HTML5, CSS3, Webpack, Heroku
- Cloned the style and functionality of the e-commerce website Wish.com; Features developed for adding reviews, editing items to shopping cart and searching products by name and theme
- Utilized React routing dom and withRouter to control navigation around SPA
- Implemented user authentication pattern with BCrypt hashing
- Implemented infinite-scroll to fetch products from server to mimic index page
- Used conditional state with Redux state on front-end to toggle modal show pages, user login & profile

[3d-Minesweeper](#) | JavaScript, ThreeJS, ThreeJSx, Canvas, HTML, CSS
- Utilized a graph data structure and recursive search algorithm to identify adjacent vacant cubes
- Integrated ThreeJS libraries to apply custom event handlers with raycasting to interface cube objects
- Applied first-person controls to allow user navigation through the 3d environment

[Multi-Go](#) | JavaScript, MongoDB, Express.js, React / Redux, Node.js, HTML5, CSS3, Canvas, WebSockets, Heroku
- Created a game server to play variations of the classical board game Go; Custom game settings include variable number of players, board sizes and grid layouts
- Synchronized lobby page, chat messaging and move coordination via websocket and Axios requests

Freelance Engineering Projects
Automation and Web-Scraping | 2015 - 2019 | Visual Basic, XML **reduced daily time spent from hours to minutes
- Developed program to scrape data for 200+ packages daily from DPD International Tracking Service
- Developed program to scrape data from sites Farfetch, Net-a-Porter & SSENSE via XML HTTP requests
- Developed program to update the master inventory spreadsheet from daily orders
- Developed 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

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