

Kevin Chou | Software Developer

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Work Experience | Backend Data, Actuarial Science

2016 - 2019

Software Developer | Visual Basic, Fortran, SQL, SQLite3, MS Access, ORM, TDD

Nicolay Consulting Group | San Francisco, CA

Willis Towers Watson | Dallas, TX

- Revamp/Maintain client codebases & databases to improve reliability, maintainability & scalability of system
- Design/implement data pipelines to batch process valuation data into analytics database; program logic to test/validate data, apply data assumptions, calculate liabilities & produce financial reports
- Review/refactor code for accuracy, readability and time-efficiency **cut runtime from 12 to 4 hours
- Convert valuation programming from legacy systems to new software systems & spreadsheet data/functions to backend/database technologies
- Create documentation for using programs, limitation of design and ongoing technical issues
- Develop in strict ACID & Transactional environment due to analytical & calculative nature of actuarial science
- Recognized by peers by vote for individual contributions in 2017

Full Stack Web Projects

2019

[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 user authentication pattern with BCrypt hashing; control navigation of SPA with React router dom
- 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
- Apply first-person controls to allow user navigation through the 3d environment

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

- Create 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
- Synchronize lobby page, chat messaging and move coordination via websocket and server requests

Freelance Engineering Projects

2015 - 2019

Automation & Web-Scraping | Visual Basic, XML

- 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

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

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