

Richard Wei

San Jose, CA (Open to Relocation)

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Education

University of California—San Diego

B.S. Physics/Biophysics | Graduated June 2016

Skills

Tools: Git, Bootstrap, React, Ruby on Rails, RSpec, Linux, MySQL, PostgreSQL

Programming Languages: Ruby, Javascript, Python, HTML, CSS, Wolfram Mathematica

Projects

Chang's Slang - The Chinese Urban Dictionary | chinese-urban-dictionary.herokuapp.com

- Developed a single page application that serves as a Chinese slang dictionary targeted at English-speaking Mandarin students.
- Created a responsive on-screen transliterator, harnessing the power of Google Input Tools API.
- Configured custom authentication using JSON Web Tokens.
- Employed principles of Agile SDLC in work as a one-person team
- **Skills used:** Ruby on Rails, React, MySQL, Heroku, RESTful API Development

SeatGeek Ticket Alert | seatgeek-ticket-alert.herokuapp.com

- Developed an application that tracks the prices of secondhand tickets to major sporting events.
- Configured Rake tasks to handle automated email sending and hourly price updates..
- **Skills used:** Ruby on Rails, React, PostgreSQL, Heroku, Cron

Predicting NBA Player Market Valuations Using Neural Networks

- Designed and trained a Python-based neural network that predicted NBA players' salaries based on their year-to-year performances.
- Used statistical techniques such as multidimensional regression to analyze the neural net outputs.
- Communicated results in presentation and technical paper
- **Skills used:** Python (scikit-learn), Technical Writing

Professional Experience

Stepping Stones to Learning

Teacher/Tutor | Jan 2019 – Aug 2019

- Taught math and writing at elementary through high school levels.
- Designed adaptive lesson plans tailored to students' learning styles and tendencies
- Collaborated with fellow teachers/tutors to expand teaching toolkits.

Enrich Consulting

Analyst/Developer | July 2016 – Oct 2018.

- Communicated with portfolio managers in the pharmaceutical industry to architect financial models.
- Demonstrated flexibility by balancing feature development and technical support across multiple clients.
- Integrated a project records editor with client's data visualizations, netting them a workflow improvement by nearly 15%.
- **Skills used:** JavaScript, D3.js, jQuery