

Richard Wei

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github.com/richardswei | <https://richardswei.github.io/portfolio/>

Education

University of California—San Diego | B.S. Physics/Biophysics | Graduated June 2016

Skills

Programming Languages: JavaScript, Java, Ruby, Python, HTML, CSS, Wolfram Mathematica

Tools and Frameworks: Git, Spring Boot, React.js, Ruby on Rails, Linux, SQL

Professional Experience

HealthTrio

Software Engineer I | Apr 2020 – Present

- Developed new microservices by building robust APIs that vend electronic health records using the HL7 FHIR standard.
- Improved large data extractions and transformations (on the order of 10 million records) by refactoring JDBC processes to be 75%+ more efficient.
- Performed a wide range of frontend duties including developing new components in ReactJS and refactoring outdated interfaces in ColdFusion and FreeMarker.
- Built SAML 2.0 single sign-on implementations between our clients and their vendors.
- **Skills used:** Java, Spring Boot, JavaScript, React.js, SQL, PostgreSQL, ColdFusion, FreeMarker

Stepping Stones to Learning

Tutor | Jan 2019 – Aug 2019

- Taught math and writing at elementary through high school levels.

Enrich Consulting

Analyst | July 2016 – Oct 2018

- Built business intelligence tools for portfolio managers in the pharmaceutical industry by developing frontend interfaces to client specifications.
- Communicated with clients to implement financial models in Analytica.
- Integrated a project records editor with a client's data visualizations, netting them a workflow improvement by nearly 15%.
- **Skills used:** JavaScript, D3.js, jQuery

Projects

Chang's Slang - The Chinese Urban Dictionary | Nov 2019 | chinese-urban-dictionary.herokuapp.com

- Developed a single page application that serves as a Chinese slang dictionary.
- Created a responsive on-screen transliterator, harnessing the power of Google Input Tools API.
- Configured custom authentication using JSON Web Tokens.
- **Skills used:** Ruby on Rails, React, MySQL, Heroku, RESTful API Development

SeatGeek Ticket Alert | Feb 2020 | 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