

Portland, Oregon
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Daniel Dai
Software Engineer

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TECHNICAL SKILLS

Strong: JavaScript, React, AngularJS, Node, Express, MongoDB, Mongoose, MySQL, Sequelize, ElasticSearch, AWS, Docker, Git, jQuery, HTML, CSS

Experienced: Backbone, PHP, PDO, PostgreSQL, Redis

APPLICATIONS

Yelp-Alytics - API Developer

Service-oriented architecture app measuring recommendation effectiveness

- Built scalable multiple endpoint API in Node using ElasticSearch to store, query and serve over 10M rows
- Refined service performance by extensively logging all transactions and optimizing bottlenecks to decrease average service response time from 200ms to 40ms
- Increased user simulator query request rates from 2 requests/second to 200 requests/second by optimizing SQL queries in order to load test deployed service at scale and test service robustness
- Deployed service with AWS and Docker images and scaled horizontally with multiple EC2 instances and load balancer

Q-Deux - Front-End Developer

Restaurant management app

- Designed and implemented queue selection algorithm to accommodate for varying restaurant table sizes
- Set up fast and intuitive management dashboard features in React providing business owners with useful tools to optimize clientele experience
- Implemented CSS and Radium animations within React components to improve UX

Travel With Friends - Full-Stack Developer

Social trip planning app

- Designed and implemented a complicated MySQL schema for efficient querying and transaction integrity
- Set up authentication and sessions logging structure with Redis and Passport
- Built modular React components for extensibility and maintainability

PROFESSIONAL EXPERIENCE

Genzyme a Sanofi Company

2010-2017

Biotherapeutics Analytical Development

Senior Research Associate

- Managed a team developing and validating analytical tools used to define critical quality attributes of biotherapeutics in Phase I/II clinical trials
- Ran, maintained and troubleshoot highly sensitive and complicated HPLC/UPLC and Mass Spectrometry instruments
- Automated data processing by writing and iterating on custom scripts and processing methods
- Wrote technical qualification reports detailing clear and structured explanation for complex experiments

EDUCATION

Hack Reactor - Advanced Software Engineering Immersive Program

2017

UC Davis - B.S. in Cell Biology/Biochemistry

2004-2008