

# Lydia Hu

Full Stack Software Engineer

## PROJECTS

### WaitOnMe, FrontEnd Developer

Full Stack | Restaurant reservation web service

- Deployed instance of dockerized service to AWS EC2 through containerization of microservices to run in isolation of my machine
- Utilized service-oriented architecture to build a multi-component proxy server to ensure secure REST api routes and authenticated browsing
- Optimized page load speed from 67 to 92 by minifying and compressing webpack

### SaleBoat, BackEnd Developer

Full Stack | Ecommerce web service

- Horizontally scaled deployed service utilizing NGINX load balancer to increase throughput by 800%
- Benchmarked PostgreSQL and MongoDB (90M records) to optimize query speeds with btree index
- Stress tested to simulate web-scale traffic and analyzed metrics to identify performance bottlenecks

### Quid-Dit, Full Stack Developer

Full Stack | Online game

- Designed an interactive game that allows player to play as Harry Potter to accumulate points as they navigate through obstacles to get to different houses in Hogwarts

## PROFESSIONAL EXPERIENCE

### Hack Reactor @ Galvanize

2019 – Present

Associate Instructor, Software Engineering

- Supported and mentored 50+ prospective engineers on JavaScript fundamentals
- Conducted 1:1 live debugging sessions to ensure students understand the problem solving process

### RSM US LLP

2017 – 2018

Senior Tax Associate

- Reviewed consolidated c-corps, s-corps, partnerships, individual tax returns, and provisions to reduce company tax liabilities
- Oversaw & trained 10 staff associates to ensure accuracy in tax filings through delegation of tax projects
- Implemented more efficient tax processes for the tax department of a publicly traded c-corporation for various busy seasons throughout the year

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## SKILLS

### FrontEnd

- Javascript ES5
- ES6
- HTML5
- jQuery
- Babel
- Webpack
- React.js
- Redux
- CSS
- Materialize
- Styled Components

### BackEnd

- RESTful APIs
- Node.js
- Express
- AWS EC2
- Docker
- NGINX
- MySQL
- Sequelize
- PostgreSQL
- MongoDB
- Mongoose
- New Relic

### Other

- Mocha
- Chai
- Jest
- Enzyme
- npm
- git
- tmux

## EDUCATION

### UC San Diego

2014

B.A. in Economics

Minors: Accounting & Business

#### Relevant Coursework

- Intro to Java Programming
- Linear Algebra
- Econometrics/Statistics

### Hack Reactor

2019

Advanced Software Engineering  
Immersive Program