Henry Ryu

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SKILLS
JavaScript, React.js, Redux, AngularJS, Node.js, Ruby on Rails, MongoDB, Express.js, jQuery, Python, SQL, HTML5, CSS3, and Git

EXPERIENCE

Software Engineer
Storyworld International (Interactive foreign language learning websites for children), Oakland, CA   May 2020 - Present
- Built an interactive dashboard and implemented a fully responsive, device-agnostic front end web page using AngularJS, JavaScript, CSS flexbox, and media queries
- Created reusable modal components allowing for teachers to assign educational storybooks for students.
- Discerned application bottleneck eliminating page timeouts, and optimized page load times

GIS (Geospatial Information System) Editor
Contractor, Apple, Sunnyvale, CA   Nov 2018 - Dec 2019
- Generated geospatial data from multiple data sources in accordance with project-specific guidelines
- Wrote custom SQL queries to generate and manage GIS databases using PostgreSQL
- Utilized SQL data type validation to perform quality assurance and quality control of geospatial data collection

GIS Technician
Ecocity Builders, Oakland, CA   Sep 2017 - Jan 2019
- Manipulated more than 20,000 geolocation data using Python to curate an interactive web map in ArcGIS
- Reduced metadata production time by 60% with automated GIS workflows in Python

SOFTWARE ENGINEERING PROJECTS

Eat Together (React/Redux, Node.js, MongoDB, Express.js), April, 2020   Live Site | Github
A web app to help groups match everyone's dietary preferences and location to restaurants and bars
- Architected SPA (Single-Page Application) using best practices in state management by incorporating React with Redux
- Integrated search with Mapbox API to show business locations in a map view
- Constructed user authentication with Passport.js and BCrypt for password hashing

Yocal (JavaScript, React/Redux, Ruby on Rails, jQuery, and PostgreSQL), Mar, 2020   Live Site | Github
A clone app showcasing the major features and functions on Yelp
- Produced reusable react components to mimic Yelp's design system
- Integrated Yelp Fusion API with Ruby on Rails backend to display restaurants
- Implemented a fast search feature that auto-completes by front-loading results and filtering by Regular Expressions
- Developed feature for users to upload their images to the AWS S3 backend that is optimized with Active Storage

Radiology Cases Project - Software Engineer (React/Redux, JavaScript, Node.js, MongoDB, Express.js),   May 2017 - Aug 2019
A radiology educational website that includes radiology images and patient cases
- Built website from the ground up displaying case studies designed to mimic a real working environment for radiologists
- Implemented reusable UI components and developed features to display thousands of x-rays images with annotations
- Used GitHub for version control and collaboration across the team

3D Path Finder (JavaScript, CSS, and HTML), April, 2020   Live Site | Github
A single-page app that visualizes pathfinding algorithms
- Implemented efficient algorithms such as Dijkstra's algorithm to find the shortest path of nodes
- Created an easy-to-understand visualization to display the shortest path using javascript and CSS

EDUCATION

App Academy - *Immersive software development course with a focus on full-stack web development (Spring 2020)*
University California, Berkeley - *Master of City Planning   (Fall 2017)*
Hongik University - *B.S. Urban Engineering   (Spring 2015)*