Zachary Lopez

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Technical Skills

Strong: Javascript, Node.js, Express, MongoDB, Passport.js, SQL, MySQL, SQLite, Three.js, Parallel.js, Git

Experienced: HTML, CSS, AngularJS, Backbone.js, CoffeeScript, Grunt, Gulp, Azure, AWS, Jasmine, Mocha, Chai

Project Experience

Q-rad.io, Full Stack Developer | *Rapid music discovery engine powered by machine learning.* | Q-Rad.io
- ➢ Utilized web workers to offload computational load of machine learning based on user interaction.
- ➢ Implemented web-based music player in HTML5 and React to stream Spotify tracks.
- ➢ Configured Spotify authentication to validate users and store user interaction data.
- ➢ Leveraged multiple API calls to seed the database using separate admin client and server.

Jaunt, Full Stack Developer | *A mobile first platform for exploring your city via Jaunts (curated walks).* | gojaunt.co
- ➢ Architected the database schema in Mongoose/MongoDB to store Google Maps API data along with meta data necessary for Jaunts.
- ➢ Implemented rendering of multiple sub-views in AngularJS, drawing route, user location and other signifiers.
- ➢ Designed complex filtering logic with multiple query options (duration, distance, geolocation) on client side.

3D Maze, Product Owner and Full Stack Developer | *A first-person 3D maze web game.* | 3dMaze.zdlopez.com
- ➢ Conceived and developed full-stack (Node/Express, Angular, Three.js) web application.
- ➢ Architected 3D world on client side with Three.js, including multiple camera views.
- ➢ Built a fully functioning collision detection system for all objects in the 3D world.

Professional Experience

Satellite Affordable Housing Associates, Director of Property Management   2010 - 2014
- ➢ Maintained fiscal integrity of 55 properties with $26MM in budgets and $3.5MM corporate budget.
- ➢ Turned over 50% of staff (40 people) within the first year to increase staff accountability and morale. Ensured company success by handling exits directly and recruiting all replacements.
- ➢ Conducted due diligence on properties and staff to vet a merger between two housing companies.
- ➢ Merged two fully functioning Property Management companies with 80 and 35 staff each. Delivered team through culture change by anticipating dissension and assuaging fears through constant communication.
- ➢ Led 8 hour meetings every two weeks amongst the full department to disseminate new information and take in staff feedback on the full merger process.
- ➢ Advocated for Affordable Housing by speaking at multiple conferences and lobbying in Sacramento.

Education

Hack Reactor   2015
Advanced Software Engineering Immersive
UC Davis   2004
BS - Computer Science and Computer Engineering

Personal

I am an introvert who enjoys public speaking. I read leadership books for fun. People and people's potential fascinate me; I am driven to help unlock those around me.