



# Sean M. Goodrich

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## EXPERIENCE

Oct 2015 – Current  
Manhattan Beach, CA

**ClickTripz, LLC**  
**Junior Software Engineer**

- Write backend code on a server that is one of the top 5000 most trafficked sites in the world
- Program agile project generator for front & back end teams using Pivotal Tracker api
- Manage deep link team by assigning & reviewing work, answering questions, & communicating with other teams

Jul 2014 - Aug 2014  
Culver City, CA

**Woven Digital**  
**Paid Intern – Ad Technology Assistant**

- Create primary content management system (CMS) for digital publishing company
- Customize CMS to streamline company marketing campaigns
- Assist in designing and developing custom takeover webpages

May 2013 - Jun 2013  
La Mirada, CA

**HSA & Associates**  
**Paid Intern – Structural Engineer**

- Review shop drawings and perform calculations to verify structural plans comply with appropriate codes and policies

## RECENT PROJECTS

Feb 2016 - Present  
Los Angeles, CA

**Illusion Generator**  
**Algorithm Engineer**

- Develop python script that creates 3d printable objects in Maya
- Devise optical illusion that implements perspective to make each object appear to morph images as user moves in 3d space

Mar 2015 - Apr 2015  
Ann Arbor, MI

**DrumCircle**  
**Unity Engineer**

- Develop music-making application that implements virtual reality and natural hand gestures to improve conceptual model over current digital audio workstations
- Build mechanic for using Thalmic Myo to pick up and place one of six instruments in the scene onto beats

## EDUCATION

**University of Michigan College of Engineering,**  
B.S.E. Computer Science  
Graduation: April 2015

## RELEVANT COURSEWORK

- Data Structures and Algorithms
- Introduction to Databases
- User Interface Development
- Mobile App Dev for Entrepreneurs
- Computer Game Design
- Computer Vision

## COMPUTER SKILLS

### Operating systems:

Windows, Macintosh, Linux

### Programming Languages:

C/C++, C#, HTML5, CSS, JavaScript, jQuery, WebGL, PHP, AJAX, MySQL, JSON, Matlab, Python, Qt, Fortran

### Tools:

Unity, Wordpress, Github, Arduino, MAMP, Microsoft Office, Adobe Creative Suite, Pivotal Tracker, SimaPro, RISA, Tecplot

### Other:

Object-Oriented Programming, Technical Communications, Agile Methodologies, Sustainable Design, Graphic Design

## INVOLVEMENT

### Hacker Fund (Oct 2015 – Present)

Lead Unity and web dev workshops for K-12 students at hackathons. Mentor college hackathons.

### Freelance Web Dev (Jul 2012 – Dec 2013)

Design sites for businesses and orgs such as City Paper Box Co and Divest & Invest

### Divest and Invest (Sep 2012 – Aug 2013)

Cofound coalition of students, faculty, staff and alumni at UMICH dedicated to divestment of fossil fuel financial assets