
SUMMARY

Interactive technology and computational art enthusiast. Committed to lifelong education and developing valuable innovative software in inspiring environments. Proficient in modern web technologies.

COMPUTER SKILLS

Languages

- Currently Proficient in: JavaScript (Angular, Ember, Node), HTML, CSS (LESS, SASS)
- Used in past projects: PHP, My/MS/Transact SQL, MongoDB, Oracle, C++, C#, Objective-C, Java, ACL2, Scheme, Python, Assembly

Software

- Development: Atom, Grunt, Sublime Text, WebStorm, Visual Studio 2008/2010, Eclipse, Xcode 3 & 4
 - Management: Git, GitHub, Mercurial, SVN, OnTime, SharePoint, Podio, Acunote, ZOHO, Bitbucket
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EDUCATION

University of Oklahoma

Norman, Oklahoma

May 2015

GPA: 3.95, 4.0

- B.S. (*summa cum laude*) & M.S., Computer Science
 - Thesis: GenSynth - Collaboratively Evolving Novel Synthetic Musical Instruments on the Web
 - Mathematics Minor
 - OU's Game Developer Association Team Leader, Webmaster, President
 - Participated in GDA's Game Fest Competition, Ludum Dare Game Jams 23-26, and Startup Weekend
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EXPERIENCE

NewSpin

Senior Software Developer

July 2014 to Present

Oklahoma City, OK

- R&D for streaming, visualizing and collaboratively interacting with large point cloud data on the web
- Overseeing transition of a Symphony web asset management app to a single page Angular app
- Transitioned jQuery WebGL and WebRTC point cloud visualization software into an Angular directive

K20 Center

DGBL Programmer, Graduate Research Assistant

Sept of 2011 to July 2014

Norman, OK

- Implemented frontend web and mobile prototypes with Ember and Unity3D with a Node/MySQL backend
- Developed a custom social platform for future K20 games and interactive lessons in PHP and JavaScript
- Designed and implemented varying game components for Unity3D in C# and Ogre3d in C++ including a dynamic scenario system, a geometric decal system, and multithreaded environment collision rendering

NextThought

Software Engineering Intern

May to August 2013

Norman, OK

- Implemented touch interactions for JANUX, an online MOOC platform built on Sencha's ExtJs

New Spin 360

Web Applications Developer

June of 2011 to May 2012

Norman, OK

- Integrated Facebook social media tagging into online virtual tours in JavaScript and PHP
- Developed an interactive map for searching and discovering virtual tours utilizing Google Maps in JavaScript
- Researched additional uses for virtual tour technology in a variety of fields, including education and games

Center for the Creation of Economic Wealth

Stüdyo iOS Developer

Jan of 2011 to Feb 2012

Norman, OK

- Partnered with an interdisciplinary team to analyze potential markets for a new software venture
- Evolved a social interactive learning tool, Stüdyo, from initial inspiration to developed product
- Developed the iPhone aspect of Stüdyo in Objective-C through Sprint Planning