



Kevin Alford

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Source Code <http://github.com/zeroeth> and <http://codepen.io/zeroeth>

Blog <http://blog.pixelflow.org> Twitter <http://twitter.com/kevinalford>

Experience

Languages: Ruby, javascript, C++, python, java, php, ObjectiveC, C#

Ruby

Desktop applications, command line, gui, 2D and 3D OpenGL graphics.

Game programming, simulations, and AI.

Web Development

6 years Ruby on Rails experience, RESTful web applications and services.

Unobtrusive, accessible and degrading interfaces.

Semantic HTML and CSS using modern layout frameworks.

Svg and canvas interactive graphics.

Front end MVC using jQuery and Backbone.js

Database

MySQL, postgresql, mongoDB, and ORMs ActiveRecord, DataMapper, Mongoid.

Testing

TDD in ruby, javascript, and C with a mixture of unit and integration tests.

Teamwork

Pair programming, agile development using pivotal, and git.

Education

Florida State College at Jacksonville: Programming AS, General AA. 3.6 gpa 2005-2008

Interests

Animatronics, puppetry, teaching, game programming, amateur radio, generative music, designing clocks, fractal world generation, photography, and trying new programming languages.

Personal Projects

Arduino LED Goggles https://github.com/zeroeth/oculus_aethereum

Minecraft+Jruby maze generation. https://github.com/zeroeth/maze_dungeon

WebGL clock <http://codepen.io/zeroeth/full/BGmHk>

Ruby Magic Card parser: <https://github.com/zeroeth/daerb>

Ruby Asteroids game <http://github.com/zeroeth/nfgrebvqf>

Javascript Game of Life demo: http://zeroeth.github.com/canvas_life

Ruby OpenGL desktop clocks <https://github.com/zeroeth/clock>

C OpenGL art: <https://github.com/zeroeth/baubles>

Low power Arduino watch firmware http://github.com/zeroeth/arduino_segment_watch

Employment

UW Academic Technologies, Mobile Learning Incubator: UX/Javascript Developer. 2013

- **Siftr.org** Social photography app for promoting discussions around UW innovation and culture, using responsive CSS for mobile/tablet/desktop layouts.

Dock Technologies: UX/Javascript Developer. 2013

- **Checkmate** Patient information assistant for Nurses, using phonegap mobile framework

UW Madison Education Outreach Program: Teacher. 2012-Present

- **Web Design Class** Teaching kids modern CSS/HTML5/Grids/Typography/Color.
- **Interactive Media & Electronics Class** Teaching kids how to create reactive electronics and computer graphics with Arduino circuits and Processing code.

UW Madison / Games+Learning+Society: Software Engineer. 2011-2013

- **Ada** Single sign on for students, video game data collection, research and visualization.
- **StudioK** Web curriculum for teaching kids game design with Microsoft's Kodu.
- **TrailsForward** Ecological simulation with tree growth and animal behavior.
- **Magenta** Network event publish/subscribe library for C# games written in Unity3D

Alorus: Ruby on Rails Web Developer. 2011

- **MediaMath Dashboard** Realtime situation display for at-a-glance trends in data being collected.
- **Spreebird Daily Deals** Deal aggregator site, using Paypal, RSS deal feed importing, and geographic searching.
- **CBI** Project management, ticketing and work-flow application with human language date parser.
- **PeerVyne** Social website where people subscribe to 'vynes' and post audio/video content.

Bear Den Designs: Ruby on Rails Web Developer, A/V engineer. 2007-2011

- **Lutheran Medical Center Department of Dental Medicine "Outcomes"** Portal for postdoc dentists to survey and report patient operations performed.
- **ExperienceJax** Events calendar with customizable repeating events, public moderation, and RSS feeds for specific areas of town, or categories.
- **Kuotz** Contractor centric bidding site where customers post jobs. features location based searching, online payment processing, and business verification check api.

Proximi: Ruby on Rails Web Developer. 2009

- **AppAdvice** iPhone app showcase site, created to suggest and review lists of similar applications with REST api access for mobile apps.

Alford Engineering: Audio Engineer. 2003-Present

- **Jacksonville Symphony Orchestra** Recording for archival and radio broadcast.

Florida State College at Jacksonville Baymeadows: Java Web Developer. 2007

- Converted a paper student questionnaire into a web application.
- Access code generator for college textbooks.

Brooks Rehabilitation: Computer Technician. 2007

Sally Industries: Animatronics Animator/Programmer. 2005-2006

- **Reese's Xtreme Cup Challenge** Animate animatronic surfer sports announcers.
- **Great Wolf Lodge in Niagara Falls** Animate musical animal kids show.

Florida State College at Jacksonville Southside: Computer Technician. 2005

Providence School: Computer Technician. 2004-2005