

Gregory Ray

Senior Software Engineer – Bay Area, CA

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Core Skills

LEADERSHIP:

Cofounder of three companies, latest (2012-16) was VC backed \$5m, led engineering as CTO. Scrum Alliance Certified Scrum Leader. Landmark.

SOFTWARE AS A CRAFT:

Practicing pragmatic software craftsmanship for over 14 years. Language agnostic. Passionate. Better tools and working smarter, not just harder.

UI/UX MAGIC MOMENTS:

Led team of Riddim Ribbon iOS game, which was App Store top grossing Sep 2010 and selected by Steve Jobs to be featured in Apple fall keynote 2009.

Technology Highlights

LANGUAGES:

JavaScript/ES6, Node.JS, Electron, Go, C/C++, Java/JSP, Objective-C, Python, HTML5, CSS, Ruby/Rails, OpenGL

TOOLS:

GDB, MongoDB, MySQL, Git, SVN, Shell, FFMPEG, vi, Xcode, NPM, LaTeX, Eclipse, Trac, Jira, Hex-Rays IDA, MATLAB

BEYOND:

Vol. Assistant Badminton Coach Gunn High School, HTTP2/Quic, REST, Android (SDK, NDK, HAL), Machine Learning/Regression Analysis

Experience

Apr 2016 – Nov 2017

eyeIO

Palo Alto, CA

HEAD OF HARDWARE

- Created working HDMI-CEC driver and Android HAL for RockChip SoC television set-top box. This removed the requirement to ship STB with a remote control and reduced manufacturing costs by \$500k.
- Implemented and maintained custom Linux Kernel, U-Boot + Arm TrustZone TEE and Android Lollipop 5.1.1 for RK3188 SoC-based television set-top box.
- Created Quic/HTTP2 zero-jitter MPEG Transport Stream muxer/router for linear (live) TV, low latency requirement (<5ms). Used to re-establish emergency television in Mexico after the 2017 earthquake and in Puerto Rico post Hurricane Maria.

Jan 2013 – Apr 2016

Ever Adventure

London, UK

CO-FOUNDER / CTO

- Created/maintained our centralized secure linear-feedback shift register RNG based on Mersenne Twister for real money online slot machines. It passed compliance testing conducted by NMI, allowing the company to obtain the prestigious UK Gambling License.
- Created initial HTML5 slot machine games. Gambling license required rigorous 7-page math proofs modeling average return-to-player (RTP) payouts for each game. To eliminate this overhead, I crafted an NPM module that read in the game configuration and used LaTeX to generate PDFs with math proofs.
- In the company's prime, these games were generating £1.5m a month.

Sep 2010 – Dec 2012 FeZo Palo Alto, CA
CO-FOUNDER / CEO

- Designed, developed, and created a high-performance visual programming language that compiled to JavaScript based on emscripten. Planned model was around a platform-as-a-service akin to 2017's Glitch.

Feb 2008 – Sep 2010 SeekMobile → Tapulous → Disney Interactive Palo Alto, CA
SENIOR SOFTWARE ENGINEER

- Co-creator of early 3D game engine for iPhone, called SeekTech.
- Bart Decrem CEO of Tapulous and will.i.am, lead singer of The Black Eyed Peas, licensed SeekTech and hired us to build a 3D iPhone game based on an will.i.am's idea.
- Game was selected by Steve Jobs to be demoed in Apple's 2009 fall keynote and upon release climbed to #1 grossing within the first 72 hours. I accepted an offer to join the Tapulous team. Nine months later Tapulous was acquired by Disney.

Mar 2007 – Feb 2008 DesignWin → OEM.com Salt Lake City, UT
CO-FOUNDER / CTO

- Started as a full-stack Ruby-on-Rails/HTML/CSS contractor and helped facilitate a relationship with the owners of OEM.com domain name. Formed a joint venture that included the OEM.com domain name as well as a cash investment. Was promoted to CTO and given co-founder status as DesignWin rebranded as OEM.com.

Mar 2007 – Jun 2007 Franklin Covey Salt Lake City, UT
SOFTWARE ENGINEER

- Full stack Ruby-on-Rails/HTML/CSS developer on the i18n team. Enabled expansion of software-based time organizer product into Asian markets by introducing right-to-left text functionality.

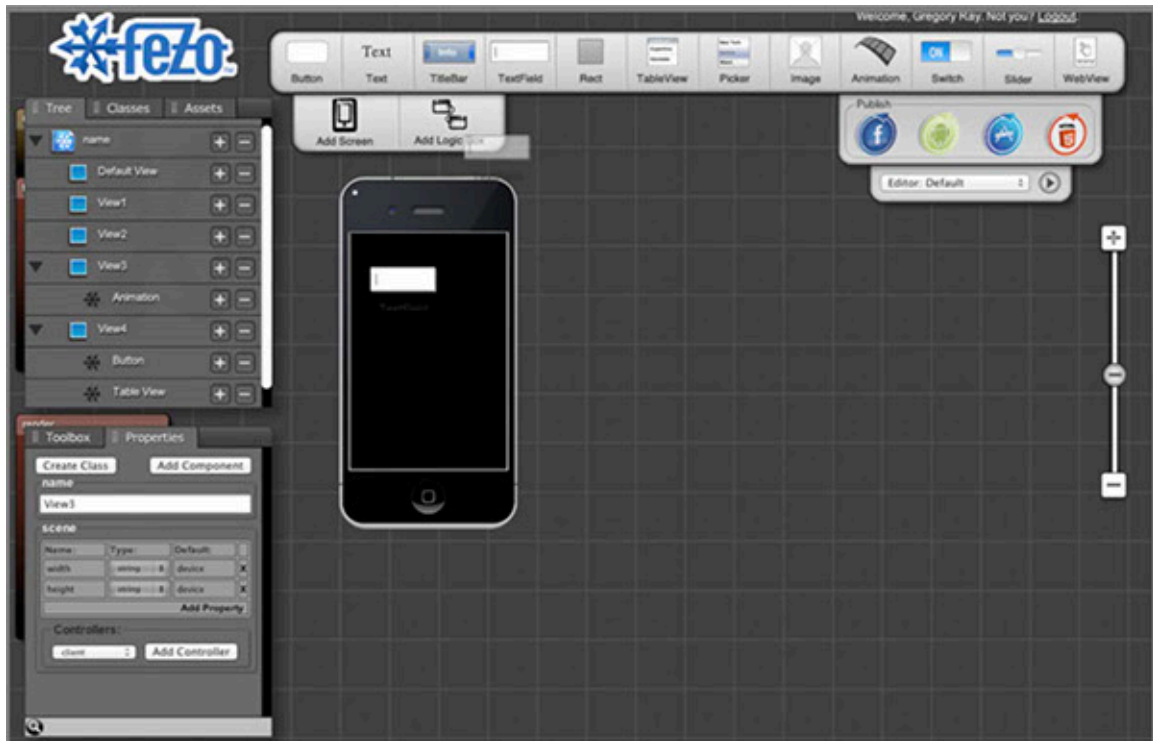
Jul 2006 – Mar 2007 Podfitness.com Salt Lake City, UT
SOFTWARE ENGINEER

- Full stack Ruby-on-Rails/HTML/CSS software engineer. Built a fitness service that provided individually tailored workouts programmed by celebrity trainers, such as Ryan Reynolds's personal trainer Bobby Strom, for Apple iPod.

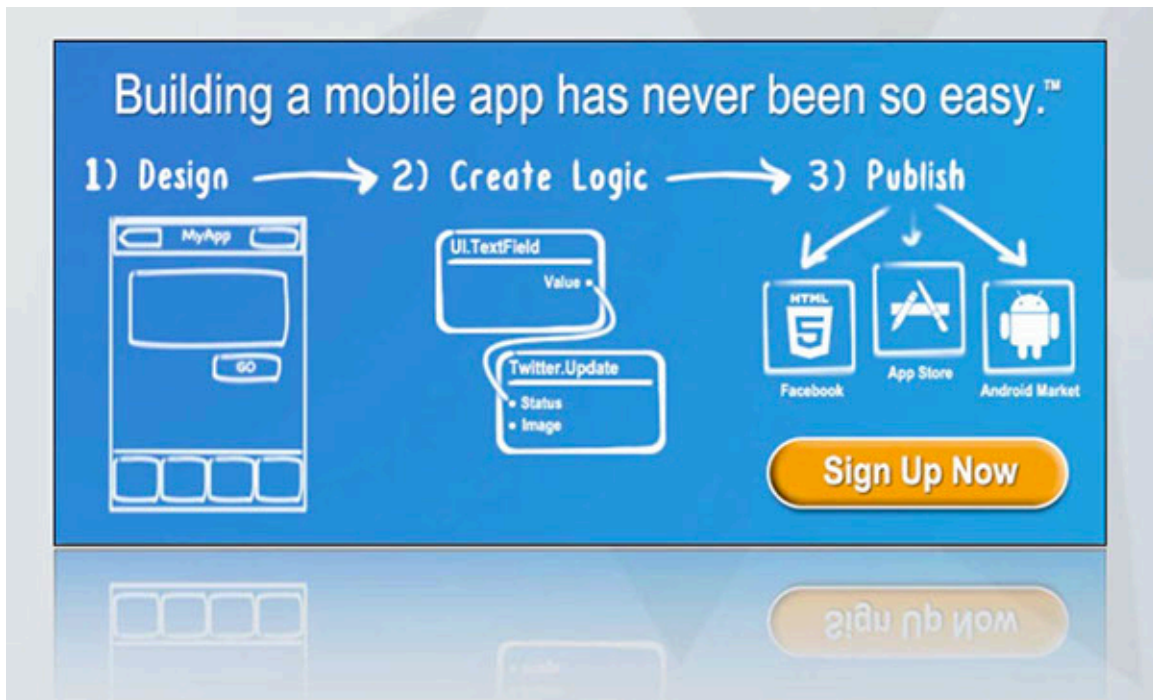
Jun 2004 – Jul 2006 Fusion Creations Salt Lake City, UT
CO-FOUNDER

- In 2004 founded software consultancy company. Became primary tech provider for Utah municipality, Eagle Mountain City. Dropped out of college when company reached \$100k revenue/month.
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Appendix A



FeZo – Visual markup language mobile application development.



FeZo – Concept / Marketing Copy

MarkovQuote

Markov Random Quote Text Generator
Primarily just a demonstration of working [Markov Chains](#) in Ruby.

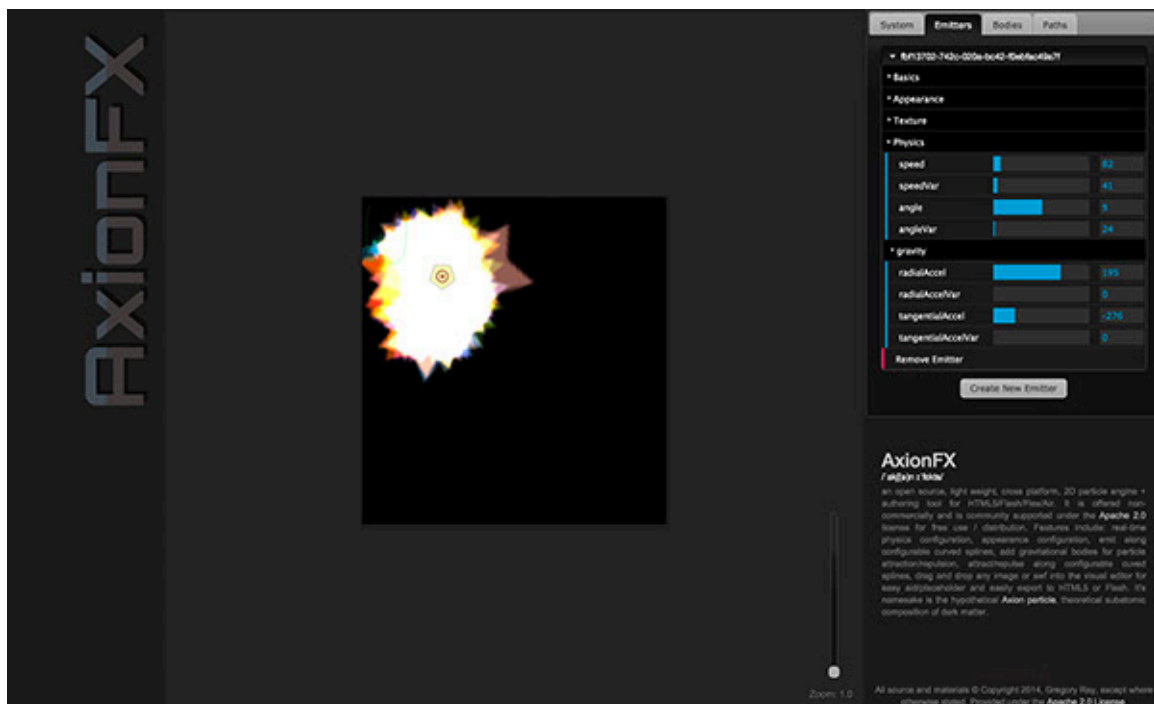
Usage

```
mq=MarkovQuote.new()  
puts mq.generate
```

Sample Generated Quotes

- America is what gets lost in translation.
- Mankind are in the blameless Vestal's lot! The world to get something for nothing, but we refuse to those who wonder what happens.
- Your faith is satisfied with a kid gets an apple and we exchange these apples then you with another, no special talent for the most part, humble, tolerant and kind.
- Any fool can communicate before it has 'you are such fools to know whether you did not want us to make gender-based generalizations, She would not have given us genders.

MarkovQuote – Funny quotes generated by Markov Chains



AxionFX – Particle effects web tool cross-compatible output for HTML5 and Adobe Flash.