

# Gregory Ray

Senior Software Engineer – Bay Area, CA

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## Core Skills

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### 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. Working smarter over 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

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### 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:

HTTP2/Quic, REST, Android (SDK, NDK, HAL), Machine Learning/Regression Analysis, MPEG-2, Codecs, SSL, Crypto/InfoSec

## Experience

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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 prime of the company, these games were generating £1.5m a month.

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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 in Nov '07.
- 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 first 72 hours. I accepted an offer to join Tapulous team and 9 months later Tapulous was acquired by Disney.

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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. Helped facilitate a relationship with owners of OEM.com domain name in which culminated in a joint venture that included 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.

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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.

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

**Software Engineer**

- Full stack Ruby-on-Rails/HTML/CSS software engineer. We built a fitness service that provided individually tailored workouts programmed by celebrity trainers, like Bobby Strom, personal trainer of Ryan Reynolds, for Apple iPod.

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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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