

Joshua McGee

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Web / API / Software Engineer

» Profile

Creative, enthusiastic engineer successful in developing novel, cutting-edge software in commercial and research environments. Nineteen years' experience in Web technologies, APIs, and object-oriented programming languages in commercial and research settings, with excellent analytical, mathematical, verbal, and leadership abilities.

» Skills

Core Skillset

Ruby on Rails, Ruby, Javascript, jQuery, HTML5/CSS3, postgres, Perl, full LAMP stack

Certification

Red Hat Certified Linux Technician

» Experience

Hallmark Labs, LLC, Santa Monica, California

Software Architect, 2014-2017

- Architected unified payments system across a portfolio of products including Hallmark eCards, the Ink & Main print-on-demand service, and the Feeln video streaming service
- Led development of RESTful Ruby on Rails API to serve an AngularJS front-end on hallmarkecards.com
- Co-developed and integrated centralized user management system ("Hallmark LIFE") to serve our properties
- Developed code for payment processing, Apple in-app billing, coupons/promotions, and direct email marketing

Three Day Rule, Los Angeles, California

Senior Software Engineer, 2014

- Converted entire threedayrule.com site to mobile responsive design
- Developed image processing code to allow users to upload, crop, and edit photos
- Optimized efficiency of matching algorithms by 24%

JibJab Media, Inc., Venice, California

Technical Lead, 2011-2014

- Led team converting JibJab.com to mobile responsive design
- Led team optimizing JibJab.com for search engine placement
- Designed and implemented the API for StoryBots.com allowing a suite of mobile applications to exchange data and images

Full Scale Magic (fullscalemagic.com), Los Angeles, California

Independent Web Contractor, 2008-2011

- Developed online call auditing system for a customer support system, working with PBX hardware in a Linux environment
- Developed e-commerce websites for small businesses
- Developed numerous commercial and non-profit websites

Teledyne Scientific and Imaging, Thousand Oaks, California

Member of Technical Staff II, 1998-2007

- Designed API — and coded server-side software and mobile c++ code — allowing scouts on a battlefield to share their geolocation information, identify enemy positions, and view other scouts' positions and data on a real-time map
- Primary software engineer on unmanned aerial vehicle program, developing an API allowing camera drones to transmit data to a server and receive flight instructions
- Developed wearable computer system from commercial and custom hardware and presented our research at the International Symposium on Wearable Computers
- Team member for the EWxR Enhanced Weather Radar system, under NASA funding, to collect cartographic and weather information from a server and combine it with onboard aircraft data to provide commercial pilots with seamless, extended-range, enhanced guidance displays
- Co-developed head- and eye-tracking software, allowing a user to control displays by gaze
- Wrote software for landmine detection systems to help clear the planet of legacy minefields

California Lutheran University, Thousand Oaks, California

Web Developer, 1996-1998

- Conceived and implemented a client-side Web database system for university alumni office
- Created online university course catalog and magazine issues from Adobe Publisher files

» **Education**

California Lutheran University, Thousand Oaks, California

Bachelor of Science, Mathematics (honors), 1999

Test scores

SAT: 800 math, 790 verbal

GRE: 730 verbal, 780 quantitative, 780 analytic

» **Side Projects**

ManabaseCrafter | manabasecrafter.com

Popular *Magic: The Gathering* site to assist players in game deck design

Awesomelytics | www.awesomelytics.com

Cross-site web analytics platform featuring realtime and historical visitor data

TileArray | tilearray.com

Web application to transform uploaded images into photo tile mosaics

Dickens.me | dickens.me

Custom site for writers to contribute to an ongoing Choose Your Own Adventure story

PJ Shows | pjsho.ws

Pearl Jam site for legal live bootlegs plus streaming radio via a custom radio widget

References available at LinkedIn and upon request