

# MICHAEL McGRANAHAN

Software craftsman

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## HIGHLIGHTS

- **Creative execution:** Conceived and developed social publishing site [Blocvox.com](#).
- **Project management:** Led delivery of a stylized, [Sencha](#) single-page application for an internal social network, despite obstruction and conflicting communication from client. · LAB49
- **Architecture:** Led the port of a gaming Q&A site from [Ruby on Rails](#) to [ASP.NET MVC](#) in an aggressive timeframe, while decomposing a generic Q&A platform from it. · GameFly
- **Business analysis:** Identified and resolved critical gaps in complex business requirements for a billion-dollar investment fund management tool, saving the project from failure. · LAB49

## DETAILED HISTORY

### Stack Overflow · April 2014 – June 2016

- Advocated for architecture and code design improvements, such as CSS methodology standardization, greater codebase modularity, and expanded automated testing. Overhauled critical checkout code to pay down technical debt and increase clarity and testability.
- Collaborated deeply with product managers and designers to improve KPIs through incremental experimentation. Drove technical analysis, design, and end-to-end implementation for numerous user-facing projects, including a visually-rich product tour, A/B-tested enhancements to the purchase UX, and various opportunistic, context-sensitive UI prompts.
- Mentored junior developers through partnerships with the Flatiron School and Girl Develop It NYC.

### Blocvox · April 2012 – February 2014

- Implemented custom tile layout engine based on strip treemap algorithm, and custom web page content analyzer and summarizer.
- Adopted a scalable [CQRS](#)- and [DDD](#)-based server architecture, built on [ASP.NET MVC](#), [Castle Windsor](#) with custom event-wiring facility, and [MongoDB](#). Heavily incorporated HTTP caching and content negotiation. Built UI as a single-page application with server-side rendering, using [RequireJS](#), [Backbone.js](#), [Stylus](#), and isomorphic [Mustache](#) templates.
- Extended [ASP.NET MVC](#) with [CSRF](#) protection and [BCrypt](#) password hashing.
- Automated testing of server with [Moq+XUnit](#), client with [PhantomJS+QUnit](#), and full-stack with [CasperJS](#). Automated [Azure](#) deployment with [ssh](#) and [TeamCity](#).
- Secured [MongoDB](#) replication with [OpenVPN](#), and backed-up data with [XFS](#) snapshots.

### LAB49 · June 2010 – April 2012

- Consultant on time-constrained, high-performance financial analytics projects.
- Employed diverse technologies such as [Java/Spring MVC](#); [.NET/WPF](#); [SQL Server Analytics Services](#) cube/OLAP data mining; [Web Sockets](#) and long-polling; [Node.js/express](#); and testing frameworks

such as jasmine, Selenium, Cucumber, Ruby/Capbara.

- Traveled occasionally and worked on geographically distributed teams.
- Practiced Scrum and other agile/XP-inspired methods.

#### **GameFly** · October 2008 – June 2010

- Engineer at game rental company, pioneering technologies for the engineering department such as ASP.NET MVC, Ruby on Rails, LINQ to SQL, and Lucene.net full-text indexing.
- Maintained GameFly.com core retail site and built standalone gaming community sites.

#### **Famous Interactive** · January 2007 – October 2008

- Lead development at small web consultancy, instituting revision control and work item tracking, and guiding team on security, SQL performance, OOP, and testability.
- Built and maintained a variety of websites, including social networks, geographic search engines, content management systems, and video streaming services.

#### **UCLA** · August 2004 – January 2007

Developed SOAP services for Exchange server calendar scheduling, and gradebook management.

#### **Self** · 2003 – present

Linux: VirtualBox, Apache, MongoDB cluster/backup, automated cloud backup, RAID, LVM, XFS.

## SKILLS

### **Expert**

ES6, Node.js • HTML5, RequireJS, Backbone.js, AngularJS • CSS3, Stylus, Less, Sass • HTTP • Git, Subversion • C#, .NET, ASP.NET MVC, Microsoft Unity, Castle Windsor, MSBuild, IIS • SQL Server, MongoDB • Scrum, XP • OOP, SOLID, GoF patterns, PEAA • SEO

### **Working knowledge**

WebSockets, long-polling • Ruby, Rails • Capybara, Selenium, PhantomJS, CasperJS, Cucumber, bower, gulp • Apache • bash • WCF, WPF, Entity Framework, NHibernate, NuGet, Ninject • Azure, AWS, Google Cloud, Bluemix • Elasticsearch, Redis, CoundDB

### **Novice**

CoffeeScript • Web Components, React, browserify, component, D3 • Kanban, buffered Moscow planning • F#, TypeScript, SignalR, Mono, Xamarin • AMQP, RabbitMQ

## CREDENTIALS

- **UCLA**, B.A. Political Science
- **Certified ScrumMaster**