

MICHAEL McGRANAHAN

Software craftsman & teambuilder

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*Empathetic collaborator • Values sustainable practices, diversity, curiosity, and courage •
Challenge-seeker • Experienced in a variety of markets and organizations • Strategic thinker*

HIGHLIGHTS

- **Creative execution:** Conceived and developed community opinion platform [Blocvox.com](#), an easy, effective and fun way to advance one's communities in the public and against opposing causes.
- **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

Blocvox • April 2012 – present

- Founder and sole builder emphasizing usability, performance, continuous deployment and security.
- Layout engine based on the strip treemap algorithm. Dynamic text sizing using binary search. Custom OpenGraph-compatible web page analyzer and summarizer.
- Performance: [CQRS](#) server architecture, built on [ASP.NET MVC](#), [Castle Windsor](#), and [MongoDB](#), supports domain-driven design, eager read derivation, and flexible scaling options. HTTP caching variance on SSL. Hypermedia-ish API supports both search-engine indexing and a client single-page application built on [RequireJS](#), [Backbone.js](#), [Stylus](#), and [Mustache](#). Minified Mustache templates are re-used on [ASP.NET](#) server and client, and are pre-compiled for the client.
- Security: "Conventional" CSRF protection. BCrypt password hashing.
- Automation: Automated testing (unit testing on server with [Moq+XUnit](#) and client with [PhantomJS+QUnit](#), full-stack integration testing with [CasperJS](#)). Continuous integration with [TeamCity](#), with scripted [Windows Azure](#) deployment.
- Storage: Distributed MongoDB replication over [OpenVPN](#), MongoDB backups with XFS snapshots, periodic rsync backup of logs and filesystem content.
- Project is in maintenance mode, as of January 2014.

LAB49 • June 2010 – April 2012

- Consultant on time-constrained, low-latency financial analytics projects.
- Employed diverse technologies such as [Java/Spring MVC](#); [.NET/WPF](#); [SQL Server Analytics Services](#) cube/OLAP data mining; dynamic web charting backed by Web Sockets and long-polling; and testing with [jasmine](#), [Selenium](#), [Cucumber](#), [Ruby/Capybara](#), and [Node.js express](#) server mocking.

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

GameFly · October 2008 – June 2010

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

Famous Interactive · January 2007 – October 2008

- Lead developer at four-person 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 admin, including OpenVPN, virtualization, Apache proxies, S3 backup, XFS snapshots, RAID.

S K I L L S

Expert

RequireJS, Backbone.js, Underscore.js • CSS3, Stylus, Less, Sass, responsive design • ES5 • HTTP • Git, SVN • C#, .NET, ASP.NET MVC, Microsoft Unity, Castle Windsor, MSBuild, IIS • SQL • MongoDB • Scrum, XP • OOP, SOLID • GoF patterns, PEAA • SEO

Working knowledge

Node.js core, npm, Express • ES6 • Web Sockets, long-polling • Ruby, Rails • Hypermedia APIs • Capybara, Selenium, PhantomJS, CasperJS • Apache • bash • Cucumber • ASP.NET Web API, WCF, WPF, Entity Framework, NHibernate, NuGet • Azure, AWS

Novice

CoffeeScript • AngularJS, browserify, bower, component, D3 • Kanban, buffered MOSCOW planning • F#, TypeScript, SignalR, Mono, Xamarin • AMQP, RabbitMQ

E D U C A T I O N • **UCLA**, B.A. Political Science.