

## Bryan R. Healey

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### SKILLS

Languages: PHP (5.3.0), SQL (MySQL 5.0 / MS SQL Server 2003 / PostgreSQL 7.0), HTML/CSS, JavaScript/AJAX, XML, C/C++, Java, .NET, REST/XML, SOAP

Systems: Linux (Ubuntu/Debian, FreeBSD, CentOS), Windows (2000/XP/Vista/2003 Server), Mac OS X, ClearOS

Software: memcached, Apache (HTTP Server), svn, Adobe (Acrobat, Photoshop, Illustrator) Linux HA (Heartbeat), Openfire (XMPP), SmoothWall, Microsoft (Exchange, IIS, SQL Server, Office), Amazon (EC2 / S3)

Areas of Expertise: Object-oriented development, MVC/PAC frameworks, high-availability and scalable platform architecture, cloud-based architecture

Special: Designed and developed MVC framework **Helium** from scratch ([www.phphelium.com](http://www.phphelium.com))

### WORK EXPERIENCE

#### **NameMedia**

Lexington, MA

Senior Software Engineer

July 2011 - Present

- Spearheaded complete conversion of all websites to **MVC** design pattern using **Helium**
- Designed and developed **asynchronous** processing engine for all domain integrity checks, taking into account need for extreme load capacity and multi-server scalability
- Built XML-based business rules processing engine, including permission-based object mapping, to assist the domain integrity checks processor
- Organized efforts to collect, tighten and improve various internal systems, including managing cron scripts and ensuring environment consistency
- Developed several RESTful API libraries for partner integrations
- Built scalable e-mail queuing and sending system from scratch
- Managed several subordinate developers, including an international team

#### **OnForce**

Lexington, MA

Senior Web Engineer

August 2010 - Present

- Developed platform for turnkey solution in **CakePHP** for high-profile client
- Built custom AJAX library to queue request calls and store results in retrievable classes
- Designed images and CSS layouts for new platform
- Created custom survey management software for customer interaction
- Developed web services and **API** using **SOAP** for interactions with outside vendors

#### **Littera Media, Inc.**

Providence, RI

Founder

January 2011 - Present

- Designed from the ground-up a scalable citizen journalism solution (Littera Report) using a LAMP architecture hosted on **Amazon EC2**
- Used open-source phone tree solution to setup automatic phone call alerts, SMS alerts, and call-in writing
- Built a custom **localization** function that determines the most relevant zone of activity based on an algorithm that factors population figures, the nearest major city and the size of the local administrative zone.
- Developed an automatic syndication method that pushed media to various web sources, including video to YouTube, photos to various image hosting services, and stories to social aggregators
- Implemented an algorithmic method for determining content relevancy based on localization, community interaction and connection velocity
- Built a flexible **REST** API to allow simple push-pull

## Shape Up The Nation

Senior Software Engineer

Providence, RI  
August 2009 – August 2010

- Developed many key applications in **LAMP** environment with deep use of customer-facing **AJAX**, including news feed application for a wide social network with emphasis on algorithmic relevancy
- Developed an activity recommendation engine with a goal of encouraging people to engage in relevant activities with members of their network using algorithms written in **PHP**
- Developed a number of **JavaScript** tools for better UI presentation, including inline prompting, smooth action animation, and calendaring software
- Designed and built vast array of administrative monitoring tools for customers with a strong emphasis on scalability (**memcached**, concurrent queries), some views referencing many millions of rows of data in near real-time
- Developed an abstract method for generating and displaying page tutorials using **JavaScript** and **XML**, allowing the user to be walked through the program with a high degree of interactivity, even mimicking then behavior of a playable video when appropriate
- Configured and managed an **XMPP** server for corporate instant messaging using **Openfire**
- Built, configured and managed company firewall/VPN using **ClearOS** and custom hardware
- Built and configured several internal servers, including a dedicated nagios3 monitoring box

## Garment Valet

Lead developer

Boston, MA  
January 2006 - July 2009

- Custom built multiple Linux servers (**LAMP / Ubuntu Server 8.04, MySQL Server 5.0**) and firewall (**SmoothWall Express 3.0**) for internal hosting environment
- Designed, developed and maintained day-to-day operational software and public website on a **LAMP** architecture (heavy **AJAX** implementation)
- Configured and maintained mail server (**Exchange 2003 Enterprise / Microsoft Server 2003**)
- Constructed physical network (**CAT5e**) for office and maintained security and usability for all workstations (**Windows XP Professional** on 8 workstations and **Mac OS X** on 2 laptops)
- Managed two subordinate programmers and handled departmental budget and purchasing, as well as managing product development and full product life-cycle
- Designed and implemented remote backup solution using **OpenSSH** and **rsync**
- Assisted with company advertising, marketing (**Constant Contact**), and customer relations

## Infinience

Founder

Boston, MA  
November 2005 - June 2008

- Conceptualized, designed and developed a web-based information management application to allow students an easy method for coordinating their class information and notes
- Designed and developed applications to enhance a students ability to study efficiently using information gathered on the platform
- Provided social tools to allow the student to connect with fellow students and students of similar interests and areas of study across multiple institutions
- Installed, configured and managed a **Windows Server** environment to host platform through a 3rd party hosting service
- Managed marketing and public relations, succeeding in modest local and educational news coverage and acknowledgement by my professors and other faculty
- Forced to shutdown in 2008 due to lack of funding

## Goldman Sachs (Boston Global Associates)

VBA / Visual Studio Developer (internship)

Boston, MA  
June 2005 - December 2005

- Designed and developed **Excel** applications using **VBA (Visual Basic .NET)** and **PostgreSQL** to assist trading staff in day-to-day operations
- Used **Microsoft SourceSafe** to manage coding changes and development
- Reverse-engineered an old database platform (**Unicode**) to develop a large-scale application for pulling data previously accessible only via **DOS-based** technology
- Developed new algorithm for handling meta data in **VBA** applications
- Developed **SQL Functions** for use throughout department in various **VBA** applications

**W.R. Grace (Grace Construction Products)**

Cambridge, MA

Intranet programming / development specialist (internship)

June 2004 - December 2004

- Designed and developed new indexing algorithm and search engine for company-wide intranet using PHP and MS SQL
- Coded a geo-location and user recognition algorithm using PHP and AJAX
- Wrote a package tracking application for company Shipping and Receiving department using ColdFusion MX
- Updated and maintained intranet content using HTML, JavaScript, PHP and ColdFusion, as well as various graphical updates using Adobe Photoshop and Illustrator (CS2)
- Managed test server environment (Windows Server 2000 / IIS)

**EDUCATION****Northeastern University**

Boston, MA

College of Computer and Information Science

September 2002 - Present

Candidate for a Bachelor of Science in Computer Science

Related Courses: Fundamentals of Computer Science, Algorithms and Data Structures,  
Topics in Operating Systems, Object Oriented Design, Seminar in Cognition

Related Organizations: IEEE, CCIS Crew

**Lunenburg High School**

Lunenburg, MA

High School Diploma

September 1998 - June 2002

Related Organizations: FBLA

**INTERESTS**

Sports: Baseball (BMBL 18+), running, weight training, and martial arts (Kenpo Karate)

Writing: Independently published two novels ("A Line Blurred" and "Shattered Wings")

Other: Open source development (Ubuntu Linux, PHP), writing, reading, gaming, artificial intelligence, and comedy

**References Available Upon Request**