

Bryan R. Healey

bryan@bryanhealey.com | www.bryanhealey.com | 978-253-4402

SKILLS

Areas of Expertise: Team leadership/building, Agile principles (Scrum, Kanban), project management, machine learning / AI (NLU, deep learning), object-oriented development, MVC/PAC frameworks, high-availability/scalability, cloud-based architecture and design

Languages: **Python** (2.7+), **PHP** (5.5+), **SQL** (MySQL 5+ / PostgreSQL 7+), jQuery, React, Angular, Java/JMS/JBoss, HTML(5)/CSS(3), REST/XML, **Scala**

Systems: Linux (Ubuntu/Debian, FreeBSD), Windows (Desktop/Server), ClearOS

Software: **Spark**, **scikit-learn**, **TensorFlow**, NLTK, AWS, Apache, **git**/svn

Special: Managed local and international teams of various sizes by **Agile** principles
Wrote a book about the start-up experience (**Start-up Struggles**)

WORK EXPERIENCE

Lola Travel

Boston, MA

Director, AI

August 2016 – Present

- Oversee and directly manage five engineers and data scientists for various products, from hotel and flight recommendations to linguistics to predictive analytics and customer analysis.
- Built and maintain the hotel and flight **recommendation** deep learning platform
- Built and maintain a conversational customer service **bot**
- Performed critical market analysis and forecasts for hotels and flights
- Help direct company product development and operational direction
- Assist with personnel, business, and workflow development

Amazon

Cambridge, MA

Software Development Manager

March 2015 – August 2016

- **Managed** multiple teams that focused on **machine learning** tasks, **speech recognition**, natural language understanding (**NLU**), and big data tech for supporting the **Echo/Alexa** project.
- Responsible for team development and personnel management
- Responsible for architectural development and operational excellence.
- Oversaw development with Python/PySpark, Scala, Hadoop, and other big data technologies
- Developed systems for internal machine learning systems (automated model building and deployment, scientist toolkits, and more).

Kenzan Media

Providence, RI

Director of Product Architecture

October 2014 – April 2015

- **Managed** a team of engineers, designers, and quality assurance engineers, including directly reporting technical leads, spread across five domestic locations.
- Routinely traveled to interface with off-site stakeholders.
- Scrum master of four different product groups.

NameMedia

Waltham, MA

Director of Development

August 2013 – October 2014

- Reported directly to the CEO
- Charged with **managing** an engineering and design team, including an international contingent, and altering company direction toward tiered product development
- Helped design and execute a partial acquisition strategy prior to new role
- Developed a set of development and deployment standards for a fast-paced team
- Architected several new profitable e-commerce web services, including a very high-load, consumer-facing photo sharing and discovery site
- Continued to maintain existing domain e-commerce platform, **BuyDomains**
- Company was **acquired** by Endurance International Group just before departure

Technical Lead

July 2011 – August 2013

- Lead the successful effort to completely redesign service consumption architecture and **API** deliverance, including the development of a proprietary management suite
- Lead the successful conversion of all frontend products to **MVC** design pattern (using **Helium**)
- Principal engineer and technical lead for the development of new e-commerce and search product, **NameFind** (www.namefind.com), the redesign of the e-commerce consumer sales product, **Afternic** (www.afternic.com), and the redesign of the flagship search-based sales service, **BuyDomains** (www.buydomains.com)
- Sole engineer for the development of an **asynchronous** backend big-data processing engine for domain integrity checks, with the need for extreme load capacity (10K+ simultaneous requests)
- Built and managed **CI/CD** deployment processes using **Jenkins/Artifactory**.
- Organized efforts to collect, tighten and improve various internal systems, including managing cron scripts, unifying deployment, virtualizing servers, and ensuring environment consistency

OnForce

Lexington, MA

Integration Consultant (Contract)

August 2010 – August 2011

- Created a turnkey sales platform atop an existing **CakePHP** solution for integration with a very-high-profile client with quick turnaround
- Turnkey solution required close association with partner executives
- Created custom survey management software for customer interaction
- Developed internal and external **API** client (**SOAP**) to secure interactions with both outside vendors and internal products, including Apple Retail

ShapeUp, Inc

Providence, RI

Technical Lead

August 2009 – August 2010

- One of three original engineers responsible for the complete re-architecture of an original product
- Designed and built an AJAX-driven news feed application for a large social network with emphasis on algorithmic relevancy and load tolerance/scalability
- Configured and managed an **XMPP** server for corporate instant messaging using Openfire
- Built, configured and managed company firewall/VPN using **ClearOS** and custom hardware
- Managed and configured several internal servers, including a dedicated **nanios** monitoring system
- Developed an abstract dynamic data recommendation engine
- Designed and built a vast array of administrative monitoring tools for customers with a strong emphasis on scalability (**memcached**, concurrent queries) and proactive response
- Built an abstract method for generating and displaying in-line page tutorials using JavaScript and **XML** scripting to walk the user through the program with a high degree of interactivity

Garment Valet

Boston, MA

Technical Director

January 2006 - July 2009

- Managed two subordinate software engineers and one electrical engineer, and handled departmental budgeting and purchasing, managed product development and life-cycle, and was responsible for investor and vendor technical education
- Designed, developed and maintained day-to-day operational software and public website on a LAMP architecture (heavy AJAX implementation)
- Custom built internal servers (LAMP / Ubuntu Server 8.04, MySQL Server 5.0) and external firewall (SmoothWall Express 3.0) for in-house hosting environment
- 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)
- Designed and implemented custom remote backup solution using OpenSSH and rsync

INDEPENDENT

Healey Engineering LLC

Managing Director

Boston, MA

June 2012 - Present

- Full-service **technical and managerial consulting** firm for southern New England companies
- Specializes in start-up development, minimum-viable-product development, team construction and organization, and pre- and post-financing scale-up efforts
- Currently servicing several clients in the Boston-Metro area (biotechnology, medical, internet)
- Published and promoted book about start-up development, with more books to be published.

CONSULTING / ADVISING

BioSampleZone

Technology Consultant

Boston, MA

July 2014 - Present

- Sole engineer on a full-service medical sample discovery and search tool for connecting brokers with research scientists and pharmaceutical companies.
- Business development efforts and technical direction expert

Lola Travel

Technology Advisory

Boston, MA

March 2016 – August 2017

- Hired full-time from August 2017
- Offered technology direction and consultation for **machine learning** (ML) and natural language processing and understanding (NLP/NLU) systems for travel product.
- General advice on voice-based systems

PHILANTHROPY

TwinCities Innovation

Chief Evangelist

Fitchburg, MA

October 2014 - Present

- Developing a technology education and hosting initiative
- Working with city and state municipalities to secure funding and space for a fully functional innovation center in the twin-cities region
- Collaborated with area colleges and universities, including Fitchburg State University, to setup a relationship system between the program and graduates

EDUCATION

Norwich University

School of Business and Management

Northfield, VT

December 2014 – May 2016

Master of Business Administration (Project Management)

Related Organizations: ICMA, Delta Mu Delta

GPA: 3.55

Northeastern University

College of Computer and Information Science

Boston, MA

September 2002 - June 2007

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

INTERESTS

Sports

Baseball, running, weight training, and martial arts

Writing

Independently published four novels; holds a complimentary BA in English

Other

OSS development, reading, gaming, artificial intelligence

Six additional minor advisory roles in Boston-Metro companies

Built and maintain MVC web framework (Helium)

References Available Upon Request