

Bryan R. Healey

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SKILLS

Areas of Expertise: **Machine learning** / deep learning (**NLU**, **ASR**) / **generative AI**, team leadership / building, **Agile** principles (Scrum, Kanban), project management, business development / fundraising, high-availability / scalability architecture, **cloud**-based architecture (**AWS**) and design

Languages: **Python**, SQL (MySQL / Postgres / Aurora), React, REST/XML, Scala

Software: **Torch**, TensorFlow, Hugging Face, Spark, scikit, NLTK, GraphQL

Special: Managed local and international teams of various sizes (from 2 to 35) by **Agile** principles
Wrote a book about the start-up experience (**Start-up Struggles**)

WORK EXPERIENCE

Aiera

Boston, MA

CTO / Co-founder

July 2018 – Present

- Co-founded the company in 2018 after 8 months of POC development
 - \$4M+ ARR; over 75 employees and contractors as of 2023
- Hired and oversaw 17 engineers over 4 years, covering all seniority levels
- Raised **\$20.5M** in capital from VC and strategics in multiple, all-up rounds
- Responsible for ML development efforts: text **topic extraction**, textual **sentiment** scoring, event probability scoring, real-time and batch **speech recognition (GRU/CNN)**, ASR output encoding and normalization, text **summarization**, and **LLM** development and implementation (including user-directed Q&A)

Lola Travel

Boston, MA

Director, AI

August 2016 – July 2018

- Oversaw and directly managed five engineers and data scientists
- Built and maintained a **recommendation** deep learning platform (for hotel and flight recommendations)
- Built and maintained a conversational customer service **bot** and companion analysis framework
- Performed critical market analysis and demand forecasts for hotels and flights
- Helped direct company product development and operational direction
- Assist with hiring, fundraising, and workflow development (company **acquired** by CapitalOne in 2021)

Amazon

Cambridge, MA

Software Development Manager

March 2015 – August 2016

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

Kenzan Media

Providence, RI

Director of Product Architecture

October 2014 – April 2015

- **Managed** a team of engineers, designers, and quality assurance engineers
- Team spread across five domestic locations
- Routinely traveled to interface with off-site stakeholders
- Scrum master of four different product groups
- Responsible for hiring and personnel development

NameMedia

Director of Development

Waltham, MA

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 all development teams
- Architected and oversaw the development of 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

Technical Lead

July 2011 – August 2013

- Lead the successful effort to completely redesign service consumption architecture and **API** deliverance, including the development of an in-house proprietary management suite
- Lead the successful conversion of all frontend products to **MVC** design pattern
- 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 (50K+ 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

Integration Consultant (Contract)

Lexington, MA

August 2010 – August 2011

- Created a turnkey sales platform atop an existing **CakePHP** solution for integration with a very high-profile retail client (Apple Retail), including ongoing support of existing solution prior to launch
- Turnkey solution required close association with partner executives and team leads
- Created custom survey management software for evaluating customer interactions
- Developed **API** clients (**SOAP**) to secure interactions with outside vendors and internal products

ShapeUp, Inc

Technical Lead

Providence, RI

August 2009 – August 2010

- One of three original engineers responsible for a complete re-architecture of a prior product
- Designed and built an AJAX-driven news feed for a large social network
- Built recommendation model for connecting likely-relevant platforms members
- Built tools for generating and displaying in-app interactive tutorials
- Company was **acquired** by Virgin Group

Garment Valet

Technical Director

Boston, MA

January 2006 - July 2009

- Managed small team of software engineers and electrical engineers
- Oversaw budgeting / purchasing, managed product development, and responsible for investor and vendor education
- Designed, developed and maintained day-to-day operational software and public website
- Custom built internal server architecture (LAMP / Ubuntu Server 8.04, MySQL Server 5.0, SmoothWall)
- Configured and maintained mail servers (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
- Specializes in start-up development, minimum-viable-product development, team construction and organization, and pre- and post-financing scale-up efforts, and fundraising
- Currently servicing several clients in the Boston-Metro area (biotechnology, medical, internet)
- Published and promoted a book about start-up development and hiring

CONSULTING / ADVISING

BioSampleZone

Technology Consultant

Boston, MA
July 2014 - July 2018

- 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

Lola Travel

Technology Advisory

Boston, MA
March 2016 – August 2016

- Hired full-time from August 2016
- Offered technology direction and consultation for **machine learning** (ML) and natural language processing and understanding (NLP/NLU) systems for a new travel product
- General advice on voice-based systems

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, martial arts, skiing
Writing	Independently published four fiction novels
Other	OSS development, reading, gaming, artificial intelligence, climate tech Six additional minor advisory roles in Boston-Metro companies

References Available Upon Request