

# Adam Wespiser, Resume, Spring 2018

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## Objective:

Data scientist and software developer looking to help organizations make better decisions and build products using insightful data analysis. Seven years developing, learning, and solving a diverse array of computational problems. Experience co-founding a data-driven start up and extending machine-learning based methodologies into complex and complicated business domains. Passionate self learner with a strong interest in the intersection between data analysis and software systems development.

## Education:

University of Massachusetts Medical School, Ph.D. Program in Computational Biology, left after completing coursework, before degree.

University of Vermont. 2010. B.S. Degree in Biological Sciences.

Coursera.com courses in Database Design, Machine Learning, Algorithms, Statistics, Probabilistic Graphical Models, Process Mining

## Work:

**Data Science Consultant, CollegeVine, Inc, formerly Admissions Hero** *July 2017 - Current* Overseeing a project to build a data driven algorithm capable of predicting a given student's chance of gaining admissions into an elite college. Member of CV-Labs, internal Research and Development Team.

**Writer, Software Engineering Communication** *October 2016 - March 2017.* *Write You A Scheme, Version 2* Create an open source book that is designed to propagate industry grade Haskell using an example programming language. My role in the project is the main contributor as well as maintainer.

**Algorithmic Consultant** *June 2016 - July 2016.* *Althea Project* The Althea project is attempting to change the way consumers pay for internet. My role was to research how algorithmic and technical complexity would affect company growth, how other mesh networks solved these problems, and create engineering estimates of the effort required to overcome these obstacles. Altheamesh.com

**Data Scientist & Software Developer** *October 2015- May 2016.* *Elsen, co.* Worked on financial analysis programming language and interactive platform implemented using the Haskell programming language. Projects include extending primitive language operators to work over timeseries data, creating aggregation functions over sets of timeseries, and building a symbolic algebra system for the dimensional analysis of units and currencies.

**Co-Founder.** *January 2015 - Present.* *Ryzome Project.* Founded Ryzome to address price discrepancies, source obfuscation, and unreasonable mark up by finding customers the cheapest source of scientific resources. My role is to develop algorithms capable of discerning groups of products across multiple vendors given acceptably low false positive rate. Other work included building a web scraping framework for distributed gathering of and ingestion of production information into structured data stores.

**Rotation Student.** *January 2013- December 2014, Weng Lab, University of*

*Massachusetts Medical School.* Used machine learning, data visualization, statistics on projects with up to terabytes data. Developed leadership skills through mentoring, and creation of a educational program. Focused free time on learning mathematical and statistical foundations of machine learning, and honed skill in R and software engineering techniques using Python.

**Rotation Student.** *August 2012 - January 2013. Zeldovich Lab, University of Massachusetts Medical School.* Designed, built and tested a 3d protein structure viewer with 'hands free' user interface using Microsoft Kinect. Presented the poster and live demo and 2012 NESS conference(New England Structural Symposium). [Github Project Repo](#)

**Bioinformatician.** *January 2011 - August 2012. Caffrey Lab, University of Massachusetts Medical school.* Prediction of protein-protein interactions, sequence features of RNA and genome annotation projects. Responsible for data management, analysis and visualization.

## Hobby Projects:

**Write Yourself a Scheme in 48 Hours, version 2.0** Update of the classic Write Yourself a Scheme in 48 hours using modern Haskell idioms and providing the corresponding tutorial. [Github Project Repo](#) [Book Chapters](#)

**NFL Data Analysis by Play:** A long time fan of football, my goal is to analyze whether football coaches are making rational decisions during the game. The dataset consists of play-by-play summaries over a 10 years, and required extensive cleaning. [Github Project Repo](#)

## Professional Societies:

Member of the Boston Haskell Meetup group, recently giving a talk on Haskell and start up companies: [YouTube Video.](#)

## Technical Skills:

**Programming** R, RStan, Haskell, Programming Language Design, Python, SQL, relational tables, database design, Perl, Bash, C, Java, Clojure, regular expressions, algorithms, data structures, git, vi/vim  
**Analysis** machine learning, statistics and data analysis, web scraping, automated information extraction, R Programming Language, Rstudio, PyTorch, probabilistic graphical models, Rcpp for integrating C++ code into R  
**Computing** high performance computing with LSF scheduler, Google Compute Services, Linux server administration  
**Communication** Data visualization with ggplot2, RShiny Server, Edward Tufte Data Visualization Conference(2014), Dokuwiki, and Google Docs

## Awards:

**Dean's Award for Outstanding Leadership, 2014** Umass Medical School. For creating an educational program designed to teach programming to students, post-docs and faculty on campus. [Umass PR coverage](#) [More info on Bootstrappers](#)

**Eagle Scout Award, 2004**

## Profiles:

website: [www.wespiser.com](http://www.wespiser.com) linkedIn: [www.linkedin.com/in/adamwespiser](http://www.linkedin.com/in/adamwespiser)  
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## Contact

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