

Adam Wespiser, Resume, Fall 2019

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Objective:

Data scientist and software engineer looking to help organizations build and ship software that solves the right problem for the client. Eight years developing, learning, and solving a diverse array of computational problems. Experienced developing machine-learning based methodologies into products and shipping the results to production. 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.

Work:

Associate Data Scientist, CollegeVine, Inc, formerly Admissions Hero *July 2017 - September 2019* Responsible as an individual contributor on projects requiring both software engineering and data science or machine learning competency. Made major technical contributions, including model design, testing, and analysis, for two algorithms from project conception to production implementation. Developed and deployed "data driven guidance" internal software tools, as well as performed numerous statistical analysis and designed and supervised data collection when needed.

Consultant *June 2016 - March 2017. Althea Project, Write You a Scheme, Version 2* Contributed technical skills to the development of Althea, a wireless mesh-network project to facilitate internet access for all, and worked on an open source book in Haskell.

Junior Data Engineer *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 in internet marketplaces for scientific products with machine learning.

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:

ToxicSense A web server and Chrome Plug-In that pulls a user's most recent twitter comments, and uses a pre-trained neural network to determine their level of toxicity. My role is this project was to find a machine learning algorithm suitable for this task, TensorFlow RNN, and successfully implement it within a Django web server.[Github Project Repo](#)

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](#)

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, Python, RStan, Python, SQL, relational tables, Perl, Bash, regular expressions, algorithms, data structures, git, Haskell

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), Jira, 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 linkedIn: www.linkedin.com/in/adamwespiser

stackoverflow: <http://stackoverflow.com/users/41932/wespisera>

twitter: @wespiser

facebook: <https://www.facebook.com/burlappsack>

github: <https://www.github.com/adamwespiser>

Contact

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