

Daniel Rasband

Software Developer | Data Scientist

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Experienced software developer, software architect, team lead, and DevOps professional with data science skills, an academic background in linguistics, and a passion for learning and creating.

Skills (Favorites in bold.)

Ruby, Rails, **JavaScript**, Angular, **React**, Backbone, **d3.js**, PHP, **R**, **Python**, Laravel, Drupal, **Elixir**, Phoenix, **Go**, C#, Swift, Objective-C, Code Review, **Git**, REST APIs, GraphQL, Linux, **Ubuntu**, Google Cloud Compute, **AWS**, IBM Cloud, Microsoft Azure, **NGINX**, MySQL, **Postgres**, SQL Server, SQLite, SQL, HTML5, CSS3, **Machine Learning**, Statistics, **NLP**, Deep Learning, **Field Experiments**, A/B Testing, **Data Visualization**, Data Engineering, Big Data, Team Leadership, and more.

Data Science Projects

Machine Learning (Objective, Inc.)

In under 10 hours, trained and prototyped a bag-of-words model classifier for a client. Used GloVe word embeddings and logistic regression to classify questions into 70 labeled classes. Achieved 93% accuracy on the test set by cleaning and transforming the textual data appropriately. Prototyped a web application using Docker, JavaScript, HTML/CSS, and Flask.

Experiments & Statistical Modeling (UC Berkeley)

Led a team of 3 students and worked with Codility, Ltd. to design and execute a within-subjects experiment to study the effects of a modern code review process on code quality and development speed. Analyzed results using statistical modeling in R. Paper available upon request.

Data Engineering (UC Berkeley) – <https://danrasband.com/tht>

Created a data pipeline using Spark, Scala, Kafka, Docker, and Python to ingest, classify, filter, and aggregate tweets that may include hate speech.

Machine Learning (UC Berkeley) – <https://danrasband.com/asl>

Trained a convolutional neural network to classify ASL alphabet images.

Natural Language Processing (UC Berkeley) – <https://danrasband.com/enr.pdf>

Developed a graph-based language model in an attempt to improve entity name recognition while also building a model that could be reasoned about and understood more easily than deep neural network models.

Data Visualization (UC Berkeley)

In a team of 3, used d3.js, Altair, and pencil and paper sketches to prototype and build a dashboard interface to show and compare trends among cryptocurrency prices, Twitter mentions, Google Trends, and stock market prices.

Work Experience

Development Team Lead • 2012–Present • Objective, Inc. • Salt Lake City, UT

- Lead and train a team of 10+ developers in code quality and best practices, architecture, design patterns, and general coding.

- Design database schemata and build reports and queries using SQL and various object-relational mapping (ORM) frameworks.
- Lead development on Built for Teams (builtforteam.com), our own SaaS product.
- Manage internal, contract, and offshore team members; evaluate their performance, provide feedback, and help them improve their skills.
- Use Ruby on Rails, JavaScript, C# (ASP.NET), Laravel, Python, Go, Swift and, most recently, Elixir and Phoenix to build web and mobile applications.
- Manage DevOps in AWS for multiple clients. Architect highly secure, robust, scalable, and reproducible (infrastructure as code) cloud-based systems.
- Manage screening and interviewing of job applicants.

Senior Web Developer • 2010–2012 • WebChuck Web • Layton, UT

- Developed over 50 custom Drupal modules.
- Built a Drupal-based system that could automatically create and deploy other Drupal sites.

Developer • 2009–2010 • Anthology Marketing Group • Honolulu, HI

- Worked with several high-profile clients to create professional websites using Drupal, PHP, and JavaScript.
- Trained clients, documented web applications, and fixed bugs.

Education

Master of Information and Data Science • Jan 2018–Present • UC Berkeley

- Studied a broad range of data science courses in statistics, field experiments, machine learning, data engineering, data visualization, and deep learning.

M.A. Linguistics • 2008–2010 • University of Hawai'i at Mānoa • Honolulu, HI

- Studied linguistics, taught an introductory linguistics course, created the department's website, and began studies in programming.

B.A. Linguistics, Korean • 2002 – 2008 • Brigham Young University • Provo, UT

- Gained a foundation in linguistics and continued studies in Korean.
- As part of course work, studied abroad for a year in a Korean university, taking classes in Korean alongside native Korean students.