

David Horn

Data Scientist, Statistician, and Engineer

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Summary

I am a platform engineer and a statistician seeking positions where I can use data and technology to make companies work and think smarter. This often aligns me with business intelligence and internal tools teams, but I am comfortable working with both marketing and software engineering groups.

Topics I'm exploring

HTML5 AND WebGL GAME PROGRAMMING

STANDARDIZATION OF SOCIAL MEDIA METRICS FOR ENGAGEMENT AND INFLUENCE

HOW TECHNOLOGY CAN BE BETTER APPLIED TO THE TRADITIONAL EDUCATION EXPERIENCE

HOW COLLECTING AND VISUALIZING OUR PERSONAL INFORMATION CAN IMPROVE OUR LIVES

Communities I'm involved in

BarCamp

I'm a regular speaker at BarCamps in Southern California on a wide range of topics.

Ignite

I've given two lightning talks on statistics-related concepts.

preDevCamp

I co-organized a webOS development day for San Diego mobile developers the weekend the webOS SDK was released.

What I've used lately to solve problems

Technology

Python
SAS
R
Tableau
HTML/Javascript/jQuery

Frameworks & Platforms

Django
MySQL
MongoDB
CouchDB
OAuth
OpenID

Processes

Waterfall
Agile SCRUM

What I'm Learning

The Hadoop Stack
WebGL

Projects I've worked on that I can talk about

Voltron

ANALYTICS AND DATA-MINING PLATFORM

[PYTHON](#) [TABLEAU](#) [DJANGO](#) [MONGODB](#) [MYSQL/POSTGRES](#) [AGILE SCRUM](#)

Voltron is a collection of tools designed to support a large-scale analytics pipeline consisting of data collection, metadata management, storage, ETL, and analysis. Since the customers of an analytics suite tend to have disparate needs and technical backgrounds, there are various mechanisms in place to support them: AJAX/JSONP, SQL, and Python. Since its release, it has taken a life of its own, supporting web-based dashboard projects, Tableau reports, and Excel-driven reporting.

Engage Rank

SOCIAL MEDIA PROFILE ANALYZER

[PYTHON](#) [R](#) [DJANGO](#) [OAUTH](#) [MYSQL](#)

Engage Rank is a metric that developed as the result of researching the possibility of approximating Page Rank for a set of nodes

using only localized information about the graph. This is a useful metric for social networks, where edge data changes rapidly and knowing the whole graph in real time is very difficult.

I Did Stuff

PERSONAL GOAL TRACKER

[PYTHON](#) [DJANGO](#) [COUCHDB](#)

I Did Stuff is a productivity tracking tool with an emphasis on tracking progress on goals that do not have definitions for completion, such as "eat healthy" or "exercise."

Rangle

PLATFORM FOR STATUS MANAGEMENT

[PYTHON](#) [DJANGO](#) [MYSQL](#)

Rangle is a contact and status management platform. My contribution to this mobile-focused project was to develop the JSON-based API and data model in python/django.

CWBI

WEB-BASED CRM

[C#](#) [VB.NET](#) [MS SQL](#) [WATERFALL](#)

CWBI is a web-based CRM, designed to meet the need of a medium-sized technical services team given the constraints of the organization. This was written before cloud-based approaches such as Salesforce.com were considered viable.

Companies I've worked for

Disney Interactive Media Group Disney's Social Media Division

Manager, Statistical Analysis
Jun 2009 - Sep 2009; Jun 2010 - Present

I am part of a division whose mission is to be a center of excellence for social media within the Walt Disney Company. It manages Disney's brand presences across social media platforms like Facebook, Twitter, Google+, Foursquare, Gowalla, and YouTube. I manage the analytics team, which is responsible for collecting, maintaining, and analyzing the social media data related to Disney's interests. I also act as a liaison to other business units within Disney to help them better understand social media performance metrics.

Yahoo! Membership Platform Team

Technical Intern
Jun 2008 - Sep 2008

I spent the summer of 2008 interning for Yahoo's membership team, which oversees all of Yahoo!'s efforts related to identity and authorization. At the time, Yahoo! was embracing open standards such as OpenID and OAuth. I developed tools to audit their new platform that ensured they adhered to specifications.

In addition, I spent spare time working with their location platform, Fire Eagle. I created their widget for the Yahoo! Mobile project. This won an intern competition for "Most Useful Widget."

Total Tech

Software Architect
Jun 2006 - Jun 2007

I contracted with Total Tech to produce an application to handle deployment of software distributed environment that catered to small, distributed businesses. I designed and implemented a client-server architecture that gave a business administrator the ability to install and uninstall Total Tech-licensed software from a web interface.

Websense Enterprise Applications Group

Programmer/Analyst
Jun 2002 - Jul 2005

Focusing on internal tools, I built several applications to increase efficiency throughout the company. Mainly servicing the technical services department, I conceived, designed, and implemented a replacement to their ticketing system: CWBI. This system emphasized usability and low maintenance. This solution was in place for five years until SaaS CRM offerings matured.

Education

California Polytechnic University B.S. in Statistics

Class of 2010

Favorite Topics

SAS
Graph Theory
Visualization

Research Project

I explored various projects and methods of applying statistical methods on social media datasets.