

David Horn

Data Scientist, Statistician, and Engineer

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Summary

Early in my career, I was advised, "if you think you've satisfied all your job responsibilities, pick up a broom." That is the guiding principle of my work philosophy. I enter organizations with the goal of finding where I can leverage my disparate skills for maximum impact. In my 10 years of experience, I have acted as a software engineer, product owner, social media analyst, and statistician.

Topics I'm passionate about

HOW HTML5 AND WEB 2.0 WILL CHANGE THE GAMING INDUSTRY

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
SQLAlchemy
OAuth
OpenID

Processes

Waterfall
Agile SCRUM

What I'm Learning

The Hadoop Stack
CouchDB
MongoDB

Projects I've worked on that I can talk about

Voltron

ANALYTICS AND DATA-MINING PLATFORM

PYTHON TABLEAU DJANGO MONGODB MYSQL AGILE SCRUM

Voltron is a collection of tools designed to support a large-scale analytics pipeline consisting of data collection, storage, ETL, and analysis. Since the customers of an analytics platform 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
	<div> PYTHON DJANGO COUCHDB </div> <p>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."</p>
Rangle	PLATFORM FOR STATUS MANAGEMENT
	<div> PYTHON DJANGO MYSQL </div> <p>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.</p>
CWBI	WEB-BASED CRM
	<div> C# VB.NET MS SQL WATERFALL </div> <p>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.</p>

Companies I've worked for

DigiSynd Disney's Social Media Division	
	<div> Manager, Statistical Analysis </div> <div> Jun 2009 - Sep 2009; Jun 2010 - Present </div> <p>DigiSynd's mission is to be a center of excellence for social media within the Walt Disney Company. It manages the brand presences of Disney across social media platforms like Facebook, Twitter, and YouTube. I began by consulting as data scientist, then quickly advanced to managing DigiSynd's social media analytics team, which is responsible for collecting, maintaining, and analyzing the social media data related to Disney's interests. I recently expanded my responsibilities to include the technology platform that powers social media analytics, which is how the Voltron project started.</p>
Yahoo! Membership Platform Team	
	<div> Technical Intern </div> <div> Jun 2008 - Sep 2008 </div> <p>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.</p> <p>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."</p>
Total Tech	
	<div> Software Architect </div> <div> Jun 2006 - Jun 2007 </div> <p>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.</p>
Websense Enterprise Applications Group	
	<div> Programmer/Analyst </div> <div> Jun 2002 - Jul 2005 </div> <p>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; three of which were after my departure.</p>

Education

California Polytechnic University B.S. in Statistics	Favorite Topics	Research Project
Class of 2010	<div> SAS Graph Theory Visualization </div>	<p>I explored various projects and methods of applying statistical methods on social media datasets.</p>