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Top Skills

Data Science
Machine Learning
Public Policy

Honors-Awards

Department of Defense Medal for
Distinguished Public Service
Young Global Leader
The World's 7 Most Powerful Data
Scientists
Gen Flux Cover Story
36 of tech's most powerful disruptors

Publications

Use of the Breeding Technique
to Estimate the Structure of the
Analysis "Errors of the Day"
Local Low Dimensionality of
Atmospheric Dynamics
Extracting Envelopes of Rossby
Wave Packets
Data Driven, Creating a data culture
Identifying Low Dimensional
Nonlinear Behavior In Atmospheric
Data

Patents

Skill Ranking System
METHODS AND SYSTEMS
TO GENERATE GRAPHICAL
REPRESENTATIONS OF
RELATIONSHIPS BETWEEN
PERSONS BASED ON
TRANSACTIONS
GRAPH PATTERN RECOGNITION
INTERFACE
Skill Customization System

DJ Patil

Former U.S. Chief Data Scientist
San Francisco Bay Area

Summary

DJ Patil has held a variety of roles in Academia, Industry, and
Government.
He is Head of Technology for Devoted Health, a Senior Fellow at
the Belfer Center at the Harvard Kennedy School, and an Advisor to
Venrock Partners.

Dr. Patil was appointed by President Obama to be the first U.S. Chief
Data Scientist where his efforts led to the establishment of nearly
40 Chief Data Officer roles across the Federal government. He
also established new health care programs including the Precision
Medicine Initiative and the Cancer Moonshot, new criminal justice
reforms including the Data-Driven Justice and Police Data Initiatives
that cover more than 94 million Americans, as well as leading the
national data efforts. He also has been active in national security and
for his efforts was awarded by Secretary Carter the Department of
Defense Medal for Distinguished Public Service which the highest
honor the department bestows on a civilian.

In industry, he led the product teams at RelateIQ which was acquired
by Salesforce, was founding board member for Crisis Text Line
which works to use new technologies to provide on demand mental
and crisis support, and was a member of the venture firm Greylock
Partners. He has also was Chief Scientist, Chief Security Officer
and Head of Analytics and Data Product Teams at the LinkedIn
Corporation where he co-coined the term Data Scientist. He has also
held a number of roles at Skype, PayPal, and eBay.

As a member of the faculty at the University of Maryland, his
research focused on nonlinear dynamics and chaos theory and
he helped start a major research initiative on numerical weather
prediction. As an AAAS Science & Technology Policy Fellow for the
Department of Defense, Dr. Patil directed new efforts to leverage
social network analysis and the melding of computational and social
sciences to anticipate emerging threats to the US. He has also

co-chaired a major review of US efforts to prevent bioweapons proliferation in Central Asia and co-founded the Iraqi Virtual Science Library (IVSL). In 2104 he was selected by the World Economic Forum as a Young Global Leader and is also a Member of the Council of Foreign Relations.

More details can be found on his LinkedIn profile: http://www.linkedin.com/in/dpatil and can be followed on twitter @dpatil

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Experience

Devoted Health
Head Of Technology
September 2017 - Present (2 years 6 months)
San Francisco Bay Area & Boston

We're on a mission to build a health plan that takes care of *every* member like they were a member of our family. We do that through great technology, data, design, and most of all love. Check us out at Devoted.com

Harvard's Belfer Center
Senior Fellow
April 2018 - Present (1 year 11 months)
San Francisco Bay Area & Greater Boston Area

Senior Fellow for Technology and Public Purpose Project
Senior Fellow for Cybersecurity Project

Crisis Text Line
Founding Board Member
2012 - Present (8 years)
Greater New York City Area

Founding board member from 2012 - Feb 2015 and then from Aug 2017 - current.
Helping save lives through technology. Couldn't ask to work with a more passionate and dedicated crew. It's an honor.

The White House
U.S. Chief Data Scientist
February 2015 - January 2017 (2 years)
Washington D.C. Metro Area

Appointed as the first U.S. Chief Data Scientist and established the mission of the office: To responsibly unleash the power of data for the benefit of the American public and maximize the nation's return on its investment in data.

Some of the things we were responsible for:

Healthcare

Entering the genomic era of medicine - Precision Medicine Initiative (announced State of the Union 2015)

End cancer - Cancer Moonshot (announced State of the Union 2016)

Electronic medical records, patients access to data and data interoperability

Cybersecurity and the health ecosystem

Ending suicide and improving mental health

Criminal Justice

Increase trust between law enforcement & citizens - Police Data Initiative - 44M Americans and 130 jurisdictions (launched by the President in Camden New Jersey)

End the endless of cycle of incarceration - Data Driven Justice Initiative - 94M Americans, 141 jurisdictions and 10 States

Big Data and Artificial Intelligence National Strategy

All data courses must have ethics & security

Ensuring data isn't used for discrimination

Data and improving the life for all Americans

Using data to help local communities connect to opportunities - launched the Opportunity Project

Addressing the drastic rise in traffic fatalities

Increasing Federal capacity to be data-driven

Helped establish ~40 Chief Data Scientists/Officers across the Federal Government

Established the Data Cabinet and associated leadership group across national security

Now data scientist is a career path in the civil service

National Security

Bring Silicon Valley & the Pentagon closer together - helped establish DIUx and the Defense Digital Service

Encryption

This part redacted.

RelateIQ
VP of Product
July 2011 - January 2015 (3 years 7 months)

Applying data science to decision making.

One of the original 3 Advisors with Bob Cohn and Bill Campbell from initial idea through launch

VP of Product to accelerate the business & product development execution

Acquired by Salesforce.com for ~$400M

Greylock
Data Scientist in Residence
August 2011 - July 2013 (2 years)

A hybrid between Entrepreneur in Residence and Executive in Residence where I get to think about the next great challenge and help out companies in the process.

Some of the content that I've created during this time:

- University of Maryland Commencement Speech -- http://bit.ly/MMzW5r http://bit.ly/Qj7cQY

- Building Data Science Teams -- http://amzn.to/pgmVPa

- Data Jujitsu -- The art of turning data into product -- http://amzn.to/Si69zX

LinkedIn
Head of Data Products, Chief Scientist, and Chief Security Officer
May 2008 - March 2011 (2 years 11 months)

Responsible for the following areas:

- Product teams on Data products

- Decision Sciences and Business Intelligence

- Fraud, Abuse, Risk, and Security

Led and executed strategy for LinkedIn to (a) become a data driven company and (b) have a product portfolio of data driven products.

Of all of our accomplishments, I've most proud of the team we built and believe that, pound-for-pound, it is the best Data Science and Engineering Team assembled. I can't emphasize enough how much this was a team effort.

Some of our products include:

- People You May Know (did you know this was invented by LinkedIn?)

- Who's Viewed My Profile, Profile Stats, Who's Viewed My Job, etc
- Talent Match (when you post a job it returns the best matched candidates)
- Jobs You May Be Interested In
- InMaps (real time interactive visualization of your LinkedIn network)
- Analytically driven email campaigns (Fortune called this the best email you'll receive this year)
- Groups You Might Like
- Skills
- Many more…

Some of the technologies that we had to invent to build these products:
- Voldemort
- Kafka
- Azkaban

Responsible for LinkedIn's push to implement Hadoop and become a center of excellence in the space.

During my tenure Fast Company ranked LinkedIn as the 24th most innovate company for its data products and 2nd most innovative company in education for Career Explorer.

Our Decision Sciences team led the development of large-scale implementation of new data access methods, company wide dashboards, monitoring, etc.

Our Fraud, Abuse, Risk, and Security team went from me to a fully 24x7 team and charted new territory by building a number of new technologies to identify abuse via social networks. The rest of this paragraph has been redacted.

eBay Inc. (eBay, PayPal, Skype, ...)
Director - Strategy, Analytics, and Product / Distinguished Research Scientist
July 2006 - May 2008 (1 year 11 months)
- Principal Architect July 2006 – Sept. 2007

• Led strategy, product, and analytics for a technology platform that enabled integration for all for eBay Inc. companies (eBay.com, PayPal.com, Skype, StubHub, Shopping.com, etc).

• Founding team member and lead architect for core technologies. Responsible for products (federated services, identity management, payment gateways, cross–platform messaging, and API gateways) with 99.99% availability and a global operational presence in 7 locations.

• Established a program to provide Skype headsets to NGOs working in the developing world.

• Founded and led the Advanced Concepts Team at PayPal. Responsible for development of four major products, which resulted in $20M in savings in 2008. One of which was selected as the 2007 People's choice Award.

• 8 patents filed in the areas of social network analysis, visualization, customer service support, human computer interaction, machine learning, risk assessment, and behavior insights.

University of Maryland, Institute for Physical Science and Technology
Assistant Research Scientist (Faculty Rank: Assistant Professor)
September 1996 - July 2006 (9 years 11 months)

Research areas include applications of chaos theory and nonlinear dynamics to predictability of physical events and other interdisciplinary problems.

#Jointly developed a world-class interdisciplinary research program combining physics, mathematics, computer science, and meteorology to improve weather forecasts (data assimilation). The National Weather Service and the European Centre Medium Range Weather Forecasting now actively utilize this research.

#Research highlighted in national news segments, a CNN documentary, newspapers, and magazines.

#Established a partnership with IBM Watson Research Labs to apply research techniques to IBM#s supercomputer, Blue Gene.

#Obtained more than $3.0 million in research funding.

#Authored 20 papers and presented 13 invited and plenary lectures.

#Member of the Institute for Physical Science and Technology, whose members include a Noble Laureate, Fields Medalist, Japan Prize recipient, and two Wolf Prize recipients.

Department of Defense, Defense Threat Reduction Agency

AAAS Science and Technology Policy Fellow

September 2004 - December 2005 (1 year 4 months)

Advanced Systems and Concepts Office:

#Project Leader # Threat Anticipation Project (to anticipate emerging threats using computational social science and social networks analysis)

#Co-Chair # Independent Scientific Review of the Biological Weapons Proliferation Prevention Program # Cooperative Biological Research Program in the Former Soviet Union, Non-Russia

#Co-Director # Iraqi Virtual Science Library

#Advisor for Indian Subcontinent Policy

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Education

University of Maryland College Park

Ph.D., Applied Mathematics · (1996 - 2001)

University of California San Diego

B.A., Mathematics · (1993 - 1996)

De Anza College

· (1992 - 1992)

Monta Vista High School