AMIK AHMAD

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curriculum vitae

hacker | designer | data nerd | systems thinker

EDUCATION

2013 M.P.S. • New York University

Interactive Telecommunications Program

Computational Design, Data, and Complex Systems

2011 B.A • University of Kansas

Japanese Language and Literature

Emphasis in Identity and Contemporary Japanese Film Theory

2004 B.A • University of Kansas

English (Creative Writing)

Emphasis in Critical Race Theory

SPEAKING AND TEACHING

2013 • Why Do Hospitals Have Gift Shops

Ignite: Strata RX | Boston, MA

What comes first? Imagination or calculation? With a focus on user experience and big data, I spoke about what it meant to be human, and how this realization could shake industries and even bend the fate of healthcare.

2013 • Emotional Healthcare: Why Data Doesn't Matter

Strata RX Big Data Conference | Boston, MA

A 75-minute session based on my design and data principles focused on user engagement and the creation of new and unexpected classes of data products. We will look at where current healthcare products fail, and how methodologies focused on interaction, translation, and memory formation work within single and double feedback loops to create experiences that change behavior.

2013 • Data Visualization with D3.js

ITP JavaScript Week | New York, NY, Featured on DashingD3js.com, BayD3, and other online publications/learning resources

Taught a 90-minute session on data visualization for the web. Created step-by-step materials to teach beginners the process of data visualization. Emphasized the importance of creating visualizations that are accessible. Live coded simple server setup with Python, utilization of GitHub, and interactive visualizations in person and on live stream.

PUBLICATIONS AND WRITING

2013 • How to Bend the Fate of Healthcare

Published by O'Reilly Media, Inc.

Martin Henry Fischer once said that, "in the sickroom, ten cents' worth of human understanding equals ten dollars' worth of medical science." We can't let the gleam of big data and technology blind us to this fact today.

EXPERIENCE

2015 • One Medical Group | NYC

Research and Development Lead

• my responsibilities begin with the sketch, and end with the complete and final fabrication of market ready products.

2013 • The Sunday Paper Company | NYC

Founder

Research and development with imagination, calculation, and execution.

• interaction design • team assembly and management.

• Healthcare // Human Factors // Experimental and Applied Sciences // Art

2012 • Ampulet | NYC

Founder and Designer

Thesis at NYU: ITP - invented new systems to augment and improve the doctor/patient relationship using mobile and web based technologies.

• master thesis • complex systems and design • user interface

2012 • Razorfish | NYC

UX and Interaction Designer

Designed digital experiences for UNIQLO.com, Mercedes-Benz, and Ford

• augmented reality • user experience • user interface

2010 • Dubai Banking Group | Dubai, UAE

Consultant for Experiences

Managed cross-cultural investor relationships between the banking group and investors in Saudi Arabia. Designed prototypes which were presented to investors which secured a series-a round of funding for the project.

• series-a • creative assets

2006 • Tinckr, LLC | NYC

Founder and Designer

Designed a fast and lightweight research aggregation tool for the web. This featured an interface that is identical to what many blogging platforms use today (Pinterest, Tumblr, etc). This online tool has an active user base.

• startup • big data • user interface

2005 • Medistem Laboratories, Inc. | San José, Costa Rica • San Diego, CA • Chandler, AZ

Principal Consultant

Advised and executed the strategy for client facing efforts of domestic and off-shore business, government regulation, technology, and medical research: leading up to an IPO.

• IPO • biotechnology • government

RECENT RECOGNITION

2013 • Google Design Jam

Winner of the green Android DIY Lego trophy for the design of a mobile application to enhance the experience of parking.

2013 • TechCrunch DISRUPT

Start-up selected as one of 20 NYC based companies for Pitch-Off week.

2012 • Visualized/Tableau Data Communications Fellow

Acknowledged as a "future innovator of data communication for making otherwise complex data easy to understand for the masses." Based on the creation of visualizations using controversial NYPD stop and frisk data: exposing inefficiency and the possibility of habitual racial profiling.

2012 • The Innovation Lab – Berkley Center for Entrepreneurship

Collaborated to discover market opportunities and create IP protected innovations as one of ten members selected to the Innovation Lab.

2012 • Semi-Finalist NYU Stern Entrepreneurship Challenge

Individually selected out of over 200 teams in the technology venture field to pitch to NYC based venture capital firms.

RECENT PROJECTS AND ART

2013 • The Impermanence of Chaos

A digital sakura blossom tree with regenerative properties. A data/art installation exploring the relationship between chaos/beauty/and the Japanese identity. Based on the aesthetic concept of (mujyou) or impermanence which dates back to the Edo period in Japanese history. This computationally designed tree reacts to live Japanese Richter scale data from the USGS xml feed. The tree then moves based on magnitude and can become completely destroyed, only to regenerate again to serve as a symbol of perseverance.

2013 • No. 382,280. Electrical Transmission of Power

Presented on the world's largest HD screen at the IAC/InterActiveCorp

A three minute long sensory experience about Nikola Tesla's representation of his neuropsychological states; an exploration of the beauty behind his madness. Due to the scale of the medium, a 44 million pixel, 120 feet (37 m) wide and 11 feet (3.4 m) high screen: the project entailed the creation of assets and use of software that was one of a kind. The final piece, the largest screen based Tesla installation in history, was presented to an audience of 700+ people in the lobby of the IAC/InterActiveCorp building in Chelsea, New York on March 1st, 2013.

2012 • Stop and Frisk Mobile Clustering Map

A foursquare connected application that provides location based Stop and Frisk data upon check-in.

2012 • NYPD/NYCLU Stop and Frisk Data

Featured at the 2012 Visualized Data Conference

Analyzed 99 variables and 685,000+ stop and frisk observations, which I clustered to find patterns and predict categorical outcomes. The results of my data science produced a visualization that won the 2012 Visualized Data Communications Fellowship Award.

2012 • Strata Conference + Hadoop World NYC Data Sensing Lab

Featured at Strata/Hadoop World 2012 in New York City

Assembled Arduino based wireless data sensors which were integrated into a distributed sensor mesh network to monitor and relay sociological data.

2012 • The Agency of Decay

A Death Clock

An interactive and dynamic data visualization that communicates the remaining life any human being has left with the use of negative space. This project, which involved the creation of a double feedback loop, resonated with people and was instrumental in their behavior change.

2012 • International Rescue Committee Mobile Awareness Application Design

Designed a simple mobile solution for the International Rescue Committee to target three user goals. Engagement, information, and donation.

2012 • Save Japan Mobile Application

Designed a simple mobile application that allowed users to one-tap donate money to the Save Japan fund. The user was given feedback via an image of a crumbling Japanese flag that reformed as each dollar was donated.

2012 • Tokyo Subway Efficiency Project (Fun Theory)

Designed a solution to make the Tokyo Subway system more efficient by changing human behavior with data and emotional relationships mapped to physical spaces.

2011 • Nature's Footprint

Featured in Technoverse

An interactive projection based installation. A Microsoft Kinect detects a user's location in a flow field of leaves and creates a negative wind force to blow the leaves out of their path. Created using Microsoft Kinect, Processing, Physics Engines, OpenCV, SimpleOpenNI, NITE, and Blob Detection.

2011 • Go Run Exit

Storyboarded, shot, edited and produced this experimental film project about breaking barriers between reality and the digital realm.

2011 • Interactive Confetti Wall of Awesome

Worked on a three person team to fabricate a six foot high acrylic enclosed confetti machine. Data from an integrated Arduino ultrasonic sensor controlled the wind force of a fan. A custom built wind tunnel created a vortex that blew the confetti into the air to match the height of the user's hand.

2011 • Developed World's First Cancer Killing Condom

Developed and fabricated a prototype condom with an integrated microcontroller, stretch sensor switch, and 245 nanometer LED to kill the human papillomavirus (HPV). The condom was developed to break the molecular bonds within micro-organismal DNA, producing thymine dimers and thereby destroying them, rendering them harmless or prohibiting growth and reproduction.

DESIGN	CODE	DATA	SYSTEMS	ON THE WEB
Typography	Processing	Data Visualization	Engagement Design (emotional design)	amikahmad.com (portfolio)
Color Theory	HTML5 + CSS3	Data Science	UX Design (flows)	http://bit.ly/13mKUZk (graphic resume)
Adobe Suite	JavaScript	R	Interaction Design (system relationships)	cutjapan.com (film geek)
A/B Testing	D3.js	RStudio	Linux	http://bit.ly/17BtyXM (git init)
Sketching	Node.js	GGobi	Windows	http://linkd.in/16KzLj3 (linkedin)
Wireframing	Socket.IO	Tableau	Macintosh	@amikahmad (tweet tweet)
	Kinect			