I dive in and solve problems. A classic INTP, the world exists to be analyzed, understood, and improved.

Education
NC State University
B.S. Mechanical Engineering
B.A. Science, Tech. & Society
Phi Beta Kappa, Phi Kappa Phi
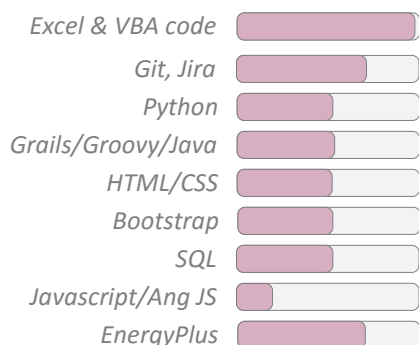*Summa cum laude*
3.9/4.0

Georgetown University
Grad. Certificate, Data Science
(expected completion Jan 2017)

Language
Spanish (conversational)

Software

Excel & VBA code	
Git, Jira	
Python	
Grails/Groovy/Java	
HTML/CSS	
Bootstrap	
SQL	
Javascript/Ang JS	
EnergyPlus	

Skills

Lean Startup	
Project Mgmt	
Technical Writing	
Data Visualization	
Learning Things	
Figuring Stuff Out	

Neal Humphrey

{ DATA CRUNCHER | ENTREPRENEUR | MUSICIAN | IDEA MAN }

An engineer by training, running my own tech startup launched me into software development. I love figuring out systems, be they human or technical, using data to understand the world, and thrive where flexibility and cross-disciplinary skills are valued.

Professional Experience

Sept '16 - Dec '16

Instructor, Data Analytics (*upcoming*)
General Assembly
Teaching a twice weekly class on Data Analytics for mid-career professionals. Topics cover Excel, SQL, and data visualization with Tableau. I do curriculum design based on materials from previous sessions.

Aug '16 - Jan '17

Student, Data Science *(ongoing)*
Georgetown University School of Continuing Studies
6-month intensive graduate-level cohort program on Data Science with special emphasis on machine learning and Python programming.

Apr '12 - Feb '16

Founder + CEO
Flashband
Founded and launched a tech startup for musicians to find collaborators. Closed $200k seed investment, and managed a team of up to 5 staff.

Used Lean Startup and Agile techniques to build and launch our Grails-based website. Created design specifications for the website including database schema and code structure as well as user stories and interface design.

Wrote code for both back-end (Grails/Groovy/Java) and front-end (HTML/CSS/AngularJS). Code management with Git and project management with Jira.

Led and worked on all aspects of the business, from project management to marketing to running in-person events. We ended active operations with over 2,000 musician members and created over 200 one-night bands.

Jul '12 - Apr '13

Global Research Associate
Collaborative Labeling and Appliance Standards Program
Designed and coded the SEAD Street Lighting Tool, a tool for calculating light distribution and energy use. Worked with partners to drive tool adoption. The tool has been translated into 3 languages (Fr, Sp, Ru) and is required by the Mexican government for applicants to their street lighting incentive program. Managed various other research projects focused on international energy efficiency standards including clothes washers and LED lighting.

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Publications / Portfolio

Flashband website [link]

SEAD Street Lighting Tool [link]

Selecting weather data...
(ACEEE Summer Study 2010) [link]

Global assessment of appliance
standards... (ECEEE 2013) [link]

Trainings

Presenting Data and Information by
Edward Tufte (2013)

Managing to Change the World by
The Management Center (2016)

Professional Experience (cont.)

Apr '10 - Jun '12

Project Manager
Senior Associate
Alliance to Save Energy, Buildings & Utilities Team
Provided education and outreach on energy efficient windows through the Efficient Windows Collaborative. Sat on the National Fenestration Rating Council Board of Directors. Created and presented training and other educational material at conferences and on webinars. Provided feedback on proposed energy based on building science. Assisted with proposal writing and budget planning.

Apr '13 - May '15
May '07 - Apr '10

Senior Associate (part time)
Analyst
Research Assistant
ICF International, Building Energy Efficiency Team
Performed studies of building energy efficiency and developed tools for predicting savings from energy efficiency upgrades . Created and analyzed big data sets of hourly energy use using computer simulations, and created tools to aggregate the data. Coding in Excel VBA, process improvement for team workflows. Simulation optimization with GenOpt and coding in Java.

Highlights

Part-time   Full-time   Study

Study Abroad, Australia
Study Abroad, Chile
Instructor, Engineering 101
Internship Abroad, Germany
Founder + CEO, Flashband
Freelance
CLASP   ICF
Alliance to Save Energy
ICF International

Engineering Student   Data Analyst and Advocate   Entrepreneur

| 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |

Directed documentary on local painter for the Arts in Schools program

Promoted to Analyst

Graduated dual-degree with honors, NC State

Nominated to NFRC Board of Directors

Promoted to Project Manager

Trained municipal officials in Mexico City on the use of the SEAD street lighting tool

Closed investment funding for Flashband