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
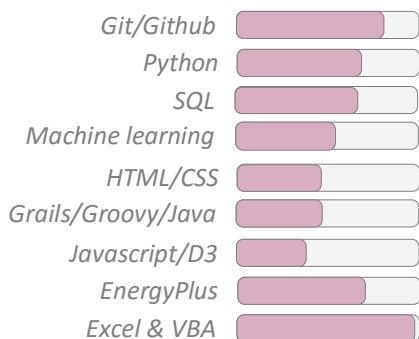*Phi Beta Kappa, Phi Kappa Phi*
Summa cum laude
3.9/4.0

Georgetown University
Grad. Certificate, Data Science

Language
Spanish (conversational)

Software

Git/Github	
Python	
SQL	
Machine learning	
HTML/CSS	
Grails/Groovy/Java	
Javascript/D3	
EnergyPlus	
Excel & VBA	

Skills

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

Neal Humphrey

{ DATA SCIENTIST | 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 - present

Project Manager
Housing Insights, Code for DC
Manage a team of 20+ volunteers building an interactive data visualization [website for affordable housing](#) in DC. Responsible for design of project architecture in Python and Javascript/D3. Review code contributions and write code. Interview users and lead outreach to drive tool adoption.

Sept '16 - Dec '16

Instructor, Data Analytics
General Assembly
Taught a [twice weekly class](#) on Data Analytics for mid-career professionals. Topics cover Excel, SQL, and data visualization.

Aug '16 - Jan '17

Student, Data Science
Georgetown University School of Continuing Studies
Completed a 6-month intensive graduate-level cohort [program in 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/JS).

Led 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.

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. Project management and qualitative research.

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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)

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, including website content, webinars and conferences. Elected to the National Fenestration Rating Council Board of Directors.

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. Coding in Excel VBA.

Highlights