I dive in and solve problems. The world exists to be analyzed, understood, and improved.

Neal Humphrey

{ DATA SCIENTIST | DEVELOPER | 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

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 Dec. 2007

Georgetown University

Data Science Graduate Certificate Jan. 2017

Language

Spanish (conversational)

Software

Proficient

Python, Javascript, VBA Git/Github HTML/CSS

Flask, Grails, Jekyll scikit-learn, machine learning SQL, Postgres, MySQL

Familiar

Java/Groovy Angular

Skills

Software project management Data visualization Technical writing Lean startup Agile

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. UX design and testing, publicize tool to drive 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.

919-449-6879 Washington, DC 20009 neal@nhumphrey.com www.nhumphrey.com

Portfolio and Publications

Github profile [link]

Housing Insights tool $[\underline{link}]$

D3-boilerplate chart library [link]

Flashband website [link]

SEAD Street Lighting Tool [link]

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

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

Professional Experience (cont.)

Apr '10 - Jun '12

Project Manager, Senior Associate

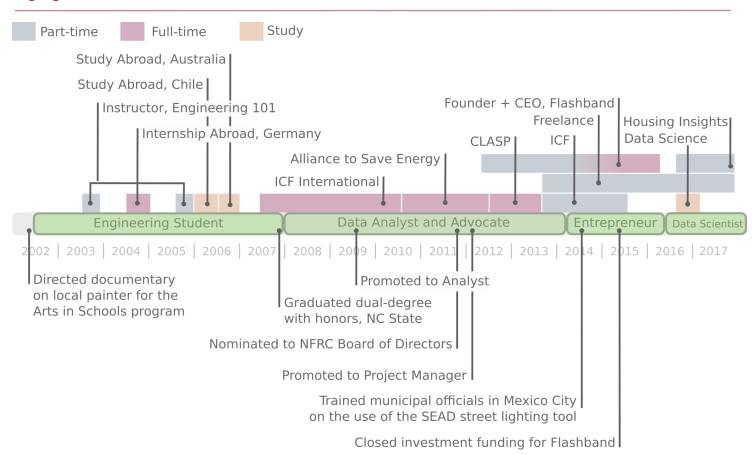
Alliance to Save Energy, Buildings & Utilities Team
Provided education and outreach on energy efficient
windows through the Efficient Windows Collaborative,
including website content, webinars and conferences.
Elected to the National Fenestration Rating Council Board of
Directors.

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



919-449-6879