

# DAVID NEWCOMB

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## DATA SOFTWARE ENGINEER (Python, Ansible, SQL)

ENERVEE

- Classified appliances & products and integrated predictions into production pipeline
- Built internal pipelining package to assist with managing cloud queues and storage
- Defined and introduced data quality problems and metrics to improve our product catalog

May 2019 - Now

## FULL STACK SOFTWARE ENGINEER (Javascript, Python, Solr, Ember, SQL)

DATAFOX

- Classified companies by industry w/ ML, improved signal extraction from the news
- Built full backend-to-frontend pipeline to integrate data from NLP / ML processes
- Created backend and frontend of queuing system to assign data correction work to auditors
- Improved company-to-company matching algorithm by utilizing high precision patterns
- Wrote scripts to provision stand-alone and autoscaling servers & upgraded all servers to Ubuntu 16 (AWS)

Apr 2017 - May 2019

## PRINCIPAL DATA SCIENTIST (R, Python, Java, Elasticsearch, d3)

LOTADATA

- Applied and wrote algorithms: Clustering, Graph Analysis, Markov Chains
- Analyzed, cleaned, classified, aggregated & built data structures from raw datasets
- Created data visualizations and maintained live monitoring dashboards
- Wrote, illustrated and published data journalism articles & filed patents

Fall 2015 - Apr 2017

## DATA SCIENCE INTERN (R, Python, Excel)

CARBON LIGHTHOUSE

- Built a Measurement & Verification tool to gauge energy impact of efficiency projects
- Predicted energy usage with time series analysis incorporating weather (NOAA API)
- Checked models using bootstrapping (autocorrelation) & cross validation (over-fitting)
- Presented stage-by-stage results numerically and thru data visualizations

Summer 2014

## OPERATIONS INTERN (R, Excel)

SAMSUNG

- Performed Multiple Correspondence Analysis on various features of 30+ messaging apps
- Ranked and forecast success of apps & recommended strategic partnerships with start-ups

Summer 2013

## ENERGY & FINANCE INTERN (Excel)

TXU ENERGY

- Built a forecasting tool to predict costs and revenue of electricity rate plan switches
- Designed web layouts for solar and wind energy campaigns with partner SolarCity

Summer 2012

## RESEARCH INTERN (Excel)

ALTA ENERGY

- Ranked potential solar panel installation locations according to solar optimality
- Researched existing solar marketplace client installations to gauge size & PV feasibility

Winter 2011

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## M.S. MANAGEMENT SCIENCE & ENGINEERING

STANFORD

- **Focus:** ENERGY & ENVIRONMENT
- **Energy:** Transition to Sustainable Energy, Energy & Environmental Policy Analysis
- **Math:** Risk Analysis, Optimization of Uncertainty, Unsupervised Machine Learning,

2014 – 2015

## B.S. MATHEMATICAL & COMPUTATIONAL SCIENCE

STANFORD

- **Focus:** ENGINEERING
- **Energy:** Energy and the Environment, Earth Systems, Renewable Energy Sources, Material Science
- **Math:** Probability Theory, Applied Statistics, Statistical Inference, Stochastic Modeling

2010 – 2014

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**INTERESTS:** Renewables, Poetry, Basketball, Traveling, Hikes, Data Journalism, Ukulele, Tennis, Music Festivals

**PROJECTS:** NBA paths, Traveling Salesman, Tree of Trees, Poem Wheels (probabilistic models & data visualization)  
Wrote, illustrated & self-published 2 books of poetry (*In a Word*, *Revival*)