

DAVID NEWCOMB

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SOFTWARE ENGINEERING CONSULTANT (Python, AWS, Gitlab CI) XINAMPA

- Designed, built full pipeline for environmental justice news crawler May 2019 - Now
- Evaluated and implemented environmental justice classifiers & relevant location classifier
- Built backend & UI of a news auditor tool to process classifier results & augment training data
- Deployed news crawler and classifiers across RSS feeds throughout South America

DATA SOFTWARE ENGINEER (Python, Ansible, SQL) ENERVEE

- Classified appliances & products and integrated predictions into production pipeline May 2019 - Feb 2020
- Built internal pipelining package to assist with managing cloud queues and storage
- Defined and introduced data quality problems and metrics to improve the product catalog

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

- Classified companies by industry w/ ML, improved signal extraction from the news Apr 2017 - May 2019
- 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

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

- Applied and wrote algorithms: Clustering, Graph Analysis, Markov Chains Fall 2015 - Apr 2017
 - Analyzed, cleaned, classified, aggregated & built data structures from raw datasets
 - Created data visualizations & monitoring dashboards, published data journalism articles
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DATA SCIENCE INTERN (R, Python, Excel) CARBON LIGHTHOUSE

- Built a Measurement & Verification tool to gauge energy impact of efficiency projects Summer 2014
- Presented stage-by-stage results numerically and thru data visualizations

OPERATIONS INTERN (R, Excel) SAMSUNG

- Ran Multiple Correspondence Analysis on various features of 30+ messaging apps Summer 2013
- Ranked and forecast success of apps & recommended strategic partnerships with start-ups

ENERGY & FINANCE INTERN (Excel) TXU ENERGY

- Built a forecasting tool to predict costs and revenue of electricity rate plan switches Summer 2012
- Designed web layouts for solar and wind energy campaigns with partner SolarCity

ENVIRONMENTAL ANALYST INTERN (Excel) ALTA ENERGY

- Evaluated potential solar panel installation locations according to solar optimality Winter 2011
 - Researched existing solar marketplace client installations to gauge size & PV feasibility
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M.S. MANAGEMENT SCIENCE & ENGINEERING STANFORD

- **Focus:** ENERGY & ENVIRONMENT 2014 – 2015
- **Energy:** Transition to Sustainable Energy, Energy & Environmental Policy Analysis
- **Math:** Risk Analysis, Optimization of Uncertainty, Unsupervised Machine Learning,

B.S. MATHEMATICAL & COMPUTATIONAL SCIENCE STANFORD

- **Focus:** ENGINEERING 2010 – 2014
 - **Energy:** Energy and the Environment, Earth Systems, Renewable Energy Sources, Material Science
 - **Math:** Probability Theory, Applied Statistics, Statistical Inference, Stochastic Modeling
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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*)