

## SUMMARY

Data scientist and environmental researcher with experience in R&D, Python, ETL, data visualization, AWS, and machine learning.

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## TECHNICAL SKILLS

Backend	Machine Learning	Visualization	Programming
ETL, NoSQL, Lambda, Spark, Docker, AWS	SKLearn, OpenCV, NLP, Tensorflow	matplotlib, seaborn, Jupyter, GIS mapping	Python, NumPy, shell, Git, pandas, pip

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## PROJECTS

### Media Bias Monitor | [areyoufakenews.com](https://areyoufakenews.com)

- Deployed scalable microservice for real-time classification of bias in news sources.
- Scraped over 70K news articles into MongoDB on Amazon EC2 for training data.
- Implemented live scraping of dozens of news articles for each user request.
- Visualization of classification results using custom-built neural network on AWS Lambda.

### IoT + Computer Vision | [github.com/N2ITN/Face2Vec](https://github.com/N2ITN/Face2Vec)

- Developed real-time drowsiness detection for Raspberry Pi, using Docker, OpenCV, Scipy.
- Finalized in Seattle Interactive 2016 T-Mobile IoT Hackathon.

### Home DNS Filter | [github.com/N2ITN/pi-zero-dns-filter](https://github.com/N2ITN/pi-zero-dns-filter)

- Deployed DNS proxy adware/malware filtering on Raspberry Pi Zero using docker.
- Designed a wifi hotspot with a built-in web app for easy setup on local network.

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## EXPERIENCE

### Data Scientist | *Integral Consulting* | Seattle, WA | 2017

- Engineered economic modeling software for ecosystem damage assessment, using chemical and geospatial analysis via Python, ArcGIS, git.

### Data Scientist, Software Engineering | *LiveStories* | Seattle, WA | 2017

- Contributed to the design a domain-specific language for graph database ETL.
- Provided data modeling support using Python, Jupyter, pandas, Git, bash, AWS, SQL.

### Associate Scientist | *Integral Consulting, Inc* | Seattle, WA | 2012-2015

- Developed signal filtering and sensor fusion algorithms for ARPA-E using Arduino and SciPy.
- Automated scientific map production for federal, private, and public use.
- Scripted ETL pipeline for scientific data related to BP Oil Spill.
- Developed web scraping algorithm for data QA using NOAA data lakes.

### R&D Lab Manager | *International Renewable Resources Institute* | DF, Mexico | 2010-2011

- Managed research and development laboratory.
- Co-designed studies on biogas reactors and rainwater capture.
- Designed optimized burner for biogas, which was implemented across Latin America.

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## EDUCATION

### Certificate, Data Science | *Galvanize Inc* | Seattle, WA | 2017

### Certificates, Big Data Specialization | *Coursera* | Online | 2015

### BS, Environmental Science: Technology | *Humboldt State University* | Arcata, CA | 2010