

# Nick Doiron

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## **Software Engineer (ML Platform), HP Enterprise - 2021-Present**

Designing and building APIs for streaming ML metrics, model registry info

Representing and tracking experiment state

Stack: Python, Go, TypeScript, PostgreSQL, gRPC

## **Software Engineer, MGGG Redistricting Lab / Tufts U. - 2019-2021**

Lead developer on participatory mapping and analysis platform (Districtr)

Aggregating and visualizing Census data from shapefiles in MapBox

Deployment on AWS (VPC containing Lambda functions and RDS DB); Netlify

## **Senior Software Engineer, McKinsey & Company - 2018-2019**

On-site data scientist – feature engineering and frontend for real estate market

Lead developer on data visualization project

## **Senior Applications Developer : The Asia Foundation - 2015-2016**

Coordinated data collection, election information API, and map-athon

## **Web Developer : Museum of Modern Art (NYC) - 2014-2015**

Ruby on Rails, HTML / CSS / JavaScript for MoMA's mobile site and iOS API

## **Software Engineer : Civis Analytics - 2013-2014**

Ruby on Rails for a data science platform, map visualizations

Processing large CSV files and SQL queries for various customers

## NLP

Co-author in BIG-Bench participatory benchmark [arxiv.org/abs/2206.04615](https://arxiv.org/abs/2206.04615)

GPT-NYC fine-tuned on /r/AskNYC with new tokenizer [hf.co/monsoon-nlp/gpt-nyc](https://hf.co/monsoon-nlp/gpt-nyc)

Spanish gender reinflection (spaCy, seq2seq) [hf.co/spaces/monsoon-nlp/spanish-flip](https://hf.co/spaces/monsoon-nlp/spanish-flip)

NLP models used or referenced (Google Scholar link) [bit.ly/monsoon-nlp-refs](https://bit.ly/monsoon-nlp-refs)

## SKILLS

HTML / CSS / JavaScript (including React, TypeScript, D3)

Server languages: Python, Go

Dev Ops: AWS (EC2, S3, Lambda, API Gateway and VPC)

Databases: PostgreSQL, MongoDB, Neo4j

Geospatial: MapBox GL, Google Maps API, OSM contributor

## TECH COMMUNITY

2012 Code for America Fellow

Presented at DEF CON / Crypto Village and IAEA Safeguards Symposium (2018)

Participated in *International Law and AI* mini-course, Asser Institute (2020)

Acknowledgment in *Stochastic Parrots* ML ethics paper (2021)

Presented at DEF CON / AI Village (2022)

## OTHER OPEN SOURCE

- Added i18n/l10n features to OpenStreetMap, MetaMask crypto wallet
- Contributed code to SimpleTransformers and Transformers decoder
- US Digital Response - set up COVID response site for NJ Econ Dev Agency
- Fortran.io web server - a popular Fortran repo on GitHub