

Nick Doiron

Software Engineer, HP Enterprise - 2021-Present

Expert-level full-stack developer on Machine Learning Platform (DeterminedAI)
Stack: TypeScript, React, Python, Go, SQL, GRPC, Docker

Software Engineer, MGGG Redistricting Lab - 2019-2021

Lead developer on participatory mapping and analysis platform (Districtr)
Deployment on AWS (Lambda, PostgreSQL, VPC) and Netlify

Data Science / Data Engineering Consultant - 2019-2020

Inter-American Development Bank: aggregated millions of student records, geo data, and records to predict student dropout rate (SciKit-Learn, XGBoost, ELI5)
Silicon Valley Bank: developed public SDKs (Go, Rust) to support API banking
Coalition for Rainforest Nations: redesigned frontend UI and map (Clojure)

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, API, and hackathon

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

Civic Tech Fellow : Code for America - 2012

Collaborated with local governments on housing, transit apps, open data
Awarded First Place in Civic Data Challenge; Key to the City of Macon, GA

Volunteer Teacher/Developer : One Laptop per Child

New eBook, math, science, and geo activities; won award from US State Dept

SKILLS

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

Python (including

i18n / l10n (added to OpenStreetMap, MetaMask crypto wallet)

Server setup: AWS (EC2, S3, Lambda); Apache / Nginx; LetsEncrypt / TLS

Databases: PostgreSQL, MongoDB, MySQL

Geospatial: MapBox GL, Google Maps API, ArcGIS, OSM contributor

OUTREACH

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

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

Taught workshops on Data Visualization and Mapping

Re:Coded's refugee training in Turkey and Iraqi Kurdistan (2019)

PyCon Zimbabwe (2018) and PyCon India (2019)

JSConf Iceland (2016) and JSConf Colombia (2017)

OTHER OPEN SOURCE

- US Digital Response - set up COVID response form for NJ Econ Dev Agency
- First language models posted on HuggingFace for Hindi, Tamil, Bangla
- Contributed code to SimpleTransformers and examples to Transformers and AutoKeras
- Fortran.io web server - a popular Fortran repo on GitHub
- Quantum computing library (jsQuil) compatible with Q#, Quil, Cirq