

# Nick Doiron

## **Expert Software Engineer, HP Enterprise - 2021-2024**

Extended ML platform features to multiple workspaces, bulk API requests

Added frontend reference for RBAC system, wrote DB migrations

Tech stack: TypeScript/React, gRPC, Go, PostgreSQL, Docker

## **Software Engineer, MGGG Redistricting Lab - 2019-2021**

Lead developer on Districtr.org, platform to map Congress districts, get statistics

Developed visualizations in MapBoxGL, processed and QA-d shapefiles

Tech stack: Netlify static site, MongoDB, AWS (Lambda, RDS, PostGIS)

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

On-site consulting, feature engineering / analysis related to real estate market

Lead developer on visualization project (D3, React, NodeJS / Express)

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

Traveled to Mongolia, Myanmar to coordinate local map-a-thon, hack-a-thon

Compiled candidate database for MY election, distributed by API to mobile apps

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

Implemented designers' specifications for museum ticketing, browsing collection

Responsive web design, Ruby on Rails, CSS / SASS

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

Wrote Ruby on Rails code to support a data science platform, map visualizations

Complex SQL queries, connecting to SOAP APIs

## Skills

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

**Python** (Flask, Pandas, Transformers, LoRA / QLoRA)

**Go, Node.js** (Express, Koa)

**AWS** (EC2, S3, API Gateway + Lambda, VPC)

**Databases:** PostgreSQL, MongoDB, Neo4j

## Tech Community

Reviewed tasks for Google BIG-Bench, one included in "BIG-Bench Hard" set

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

Presented at DEF CON's Crypto Village (2018) on homomorphic encryption

Presented at DEF CON's AI Village (2022) on prompting code-generation models

Mentor with U. Chicago Existential Risk; co-author on GPT-4 unit testing paper

## Other Open Source

Added i18n/l10n features to OpenStreetMap editor, MetaMask wallet

Released npm modules for Burmese i18n (name search, collation, encodings)

Fortran.io web server - a popular Fortran repo on GitHub

Small business COVID response site, launched by Governor of New Jersey