Nick Doiron

EXPERIENCE

Software Engineer, MGGG Lab, Tufts University - Sept 2019-Present
Developing mapping tools, serverless backend, and graph data for Districtr.org
Collecting detailed Census geodata for civil rights and community partners

Data Science / Data Engineering Consultant - 2016-2018; 2019
Inter-American Development Bank: aggregated millions of student records, geodata, and crime data to make edu-data exploration map
Silicon Valley Bank: developed public SDKs (Go, Rust) to support API banking
Esri: OpenStreetMap tools to import geo data from open data portals

Senior Software Engineer, McKinsey & Company - 2018-2019
On-site data scientist; feature engineering and frontend for real estate client
Lead developer on data visualization project (React / NodeJS)
Introduced git, pgAdmin, QGIS to data engineering teams

Senior Applications Developer : The Asia Foundation - 2015-2016
Coordinated API development and hackathon for Myanmar election data
Redesigned public services map for City of Ulaanbaatar (PHP/MySQL)

Web Developer : Museum of Modern Art (NYC) - 2014-2015
Ruby on Rails for MoMA's mobile site and API; Raspberry Pi for exhibit

Software Engineer : Civis Analytics - 2013-2014
Ruby on Rails for a data science platform, test-driven development

2012 Fellow : Code for America : San Francisco, CA
2013 GIS Fellow : City of Boston, MA
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/Engineer : One Laptop per Child
Developed eBook app, Finalist in State Dept / USAID Enabling Writers Challenge
New math, science, and geography activities in Uganda, Uruguay, and Haiti

SKILLS

HTML and CSS (including responsive design, and i18n/l10n)

JavaScript/Node.js (React, TypeScript, Express)

Python including machine learning, NLP (SciKit-Learn, Transformers, AutoKeras)

      Contributed first Hindi, Bengali, and Tamil models to HuggingFace

Databases: PostgreSQL, MySQL, MongoDB

Geospatial: MapBoxGL, ArcGIS, Google Maps API, PostGIS, D3, OSM contributor

OUTREACH

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)

Other presentations

      DEF CON Crypto Village, IAEA Safeguards Symposium (2018)

      JSConf Iceland (2016), JSConf Colombia (2017)

      Esri UC (2011), Esri EDU UC (2012), NACIS (2013)

OTHER OPEN SOURCE

- Rapidly set up COVID questionnaire for New Jersey Econ Dev Agency
- i18n/l10n for MetaMask cryptocurrency wallet, including right-to-left language support
- Resolved open issues re: visualization and filtering on NextStrain.org