

# NICK OUELLET

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Data Scientist and Developer building data and modelling tooling and web frontends.

## EXPERIENCE

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### Manager of Data Science: Travelers - Claim AI

March 2021 – Present

- Develop prediction platform utilizing Elasticsearch backend with React frontend deployed in AWS for productionalizing and monitoring deep learning models
- Manage exploration of techniques to model on extremely long sequences of text in supervised and unsupervised fashions
- Make tooling for deep learning vision and language model unsupervised creation and evaluation
- Construct a geospatial imagery downloader and modelling pipeline to pull from a tiled image API with geocoding and spatial manipulation for an expansive aerial imagery EDA and robust model creation

### Associate Data Science Researcher: Travelers - Claim AI

April 2020 – March 2021

- Created data-driven deep learning models to solve vision and nlp problems of Travelers claims including chatbots, catastrophe detection, policy verification and segmentation
- Deployed the first claim realtime model in a container environment founding best practices for production code architecture, realtime model APIs and operational reporting data storage and retrieval
- Integrated the inherently exploratory data science workflow into a complete CI/CD development cycle
- Managed an intern to develop model refresh and enhancement based on integrating unstructured text features and multiclass model consolidation
- Built a spark tool to extract and parse text data from Hadoop creating tokens for downstream modelling

### Senior Data Science Consultant: Travelers - Claim Research

April 2019 – April 2020

- Performed EDA and software development to facilitate productionalization of predictive models
- Monitored production models to ensure consistency of operation
- Created a prototype platform to aggregate social media sentiment analysis about the company
- Trained a deep learning vision model which won an enterprise-level national competition by Gartner
- Wrote a fetching tool to facilitate extracting table metadata and running queries against primary databases

### Data Science Consultant: Travelers - Claim Research

October 2017 – April 2019

- Designed and test Python machine learning models implemented using the Model as a Service (MaaS) delivery framework for real-time cloud-hosted integration into current business workflow
- Used advanced tools and platforms, including AWS, Spark, Python, and SAS, to perform exploratory data analysis to determine business viability
- Led classes of 15+ participants to teach software development best practices with respect to machine learning modelling development and testing

## PUBLIC COMPANY PROJECTS

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### Travelers Wildfire Detection Model

November 2018 – April 2019

- Train a vision model to identify homes affected by wildfires from aerial imagery
- Develop a pipeline to train models on other catastrophe aerial imagery

### FrankPrice

November 2019 – Present

- Develop React web and mobile applications to show the costs of medical procedures
- Help people find Covid-19 testing in their area
- Utilize PostgreSQL and AWS for deployment

## EDUCATION

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### University of Connecticut

September 2016 – June 2017

- Master of Science in Mathematics
- GPA: 4.16/4.00

### Brandeis University

September 2012 – December 2015

- Bachelor of Arts, magna cum laude, Mathematics with honors
- Minors: Computer Science, Economics
- GPA: 3.72/4.00, Dean's List all semesters

## SKILLS

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- Web development: HTML, CSS (SCSS), JavaScript, React, NodeJS, Express, GraphQL, Apollo
- Machine Learning and Data Science: Python, Pandas, Scikit-Learn, Pytorch, XGBoost, SQL, Spark, SAS
- General: Rust, Lua, Docker, AWS, MongoDB, Elasticsearch, Neo4J, Git, Github (+ Actions), Shell (Bash + common tools), Make