Nathan Drezner

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EXPERIENCE

Dash Solutions Architect

Plotly - provides online graphing, analytics, and statistics tools and web frameworks for individuals and collaboration

📅 February 2020 – Present   📍 Montréal, Canada

- Develop Dash applications using the full-stack Dash Enterprise framework for internal use and external customers for industries including finance, government, and supply chain
- Contribute to both Plotly's open- and closed-source software projects and work with tools including Plotly, Dash, React, Apache Spark, Redis/Postgres
- Public facing apps include a **nursing home COVID monitor**.

Research Assistant

.txtLab - a laboratory for cultural analytics at McGill University

📅 October 2018 – May 2020   📍 Montréal, Canada

- Designed and oversaw a .txtLab project to study the salient language of disagreement and consensus building on Wikipedia
- Work culminated in a white paper, "Everyday Specialization on Wikipedia", which was published in September 2020.
- Project overseen by Profs. Andrew Piper and Richard Jean So

Research Assistant

The Riddle Project - a ROAAr project dedicated to transcribing, solving, and researching riddles found in early manuscripts

📅 April 2019 – April 2020   📍 Montréal, Canada

- Built a website and several geospatial web apps at **riddleproject.github.io** to illustrate riddle movement over time using MapBox
- Project overseen by Prof. Nathalie Cooke

Research Assistant

Montréal Computational & Quantitative Linguistics Lab - a labratory to study fundamental questions about language acquisition, processing, use in society, and change over time

📅 November 2019 – May 2020   📍 Montréal, Canada

- Collaborator for a project studying patterns of productivity and reuse in language including designing an algorithmic implementation of a qualitative model for productivity
- Project overseen by Prof. Timothy O'Donnell

AWARDS

Arts Undergraduate Research Award
Given to support undergraduate students who undertake research during the summer under the direct supervision of a faculty member
$4,000 grant for work with .txtLab, 2019

SKILLS

- **Language**: Python, Javascript, Bash, Clojure, R, French (some working proficiency)
- **Technologies**: Dash, Plotly, React, Redis, ArcGIS, MapBox, pandas, scikit-learn

EDUCATION

McGill University

Bachelor of Arts

📅 September 2016–April 2020

- Double major in Computer Science and English, cultural studies

LEADERSHIP

President & Team Development

Canadian Intercollegiate Sailing - governing body for Canadian collegiate-level sailing

📅 January 2017 – December 2019

- Elected by a coalition of 18 sailing teams across Canada to two terms as president and one term as team development officer
- Managed development of an online scoring system

PERSONAL PROJECTS

Network Analysis of Horror Films 🎧

- Studied themematic patterns, tropes, and the structure of the horror genre using social networks
- Project overseen by Prof. Ned Schantz

Wikipedia Picture of the Day

- Daily automated posting of Wikipedia's picture of the day on Twitter at **@wiki_potd**

PUBLICATIONS

Everyday Specialization on Wikipedia 🎧

- Published by the McGill .txtLab. **"Everyday Specialization: The coherence of editorial communities on Wikipedia"**, *.txtLab Collaborations*, September 30, 2020. **txtlab.org**

Reconciliation in Chaos 🎧

- Published in *The Channel*, McGill Department of English Undergraduate Review **"Reconciliation in Chaos: Tracing word distributions and sentiment in the monologues of *Palace of the End*"**, *The Channel*, March 26, 2019. **mcgillchannelundergraduatereview.com**