Quentin Vilchez

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EDUCATION

ECOLE NORMALE SUPERIEURE   Paris-Saclay, FR | 2019 - 2020
I spent 6 months in the Mathematics graduate program.

UNIVERSITY OF TORONTO | BSc Applied Mathematics   Toronto, ON | 2015 - 2019
GPA: 3.7

WORK EXPERIENCE

CORNERSHOP | Backend Integration Engineer   Toronto, ON | 2020 – Present
- Develop data pipelines to integrate partner catalogue data into the Cornershop app.
- Tools: Python, Pandas, Scrapy, Docker, PostgreSQL, Kubernetes.

ARZELA | Co-Founder | www.arzela.io   Toronto, ON | 2018 – 2019
Arzela was born out of a research project at the University of Toronto. Arzela combined the predictive powers of data science and mathematical modelling to map networks of influence across social networks.
- Developed scraping tools using Python and Selenium.
- Developed clustering algorithms using Python, pandas, NetworkX and Numpy.

BELL | Bilingual Support Analyst   Toronto, ON | 2016 – 2016
- Assisted in English to French translations.
- Helped carry out various market research procedures.

SKILLS

Languages	JavaScript, Python, Node.JS, HTML/CSS, R, MatLab, SQL, Git
Libraries	React, Express, FastAPI, Numpy, pandas, scikit-learn, A-Frame
Mathematics	Probability Theory, Functional Analysis, Statistics, Graphs in Machine Learning

PROJECTS

COLOR THERAPY | JavaScript, React, SpotifyAPI, Git
www.colortherapy.io
Color Therapy lets you generate accurate Spotify playlists based on emotions and colors.

MATHVR (IN PROGRESS) | JavaScript, A-Frame, THREE.js, Git
github.com/amirhmk/MathVR
Virtual Reality web application to help students build an intuition for mathematics.

NEURAL STYLE TRANSFER WEB APP | Python, FastAPI, JavaScript, React, Pytorch, Git
github.com/quentinv72/NeuralStyleTransfer
Web app that lets users upload an art image and an image of their choice, and then transfers the style of the art image onto the other image.

TWITTER INFORMATION SPREAD | Python, MatLab, ODEs
drive.google.com/file/d/1CH-kEWi3VG3v6ZkBc8sCXcOW4_V1T1iH/view?usp=sharing
Mathematical Model to describe how information spreads over Twitter.

AWARDS

DEAN'S LIST

UNIVERSITY COLLEGE ALUMNI SCHOLARSHIP

WINNER OF THE UNIVERSITY OF TORONTO DATAFEST