

Quentin Vilchez

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EDUCATION

UNIVERSITY OF TORONTO | BSc APPLIED MATHEMATICS
GPA: 3.7

Toronto, ON | 2015 - 2019

WORK EXPERIENCE

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.
- Managed the administrative side of the business.
- We worked with various companies and were able to generate more than \$15,000 in revenue.

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, UNIX
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.colorthrapy.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/quentinv72/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.

URL SHORTENER APP | EXPRESS, NODE.JS, REACT, SQLITE, AUTHO
github.com/quentinv72/URL-shortener

URL shortener app with user login.

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