

# 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](http://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.

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, HTML/CSS, R, MatLab, SQL, Git, UNIX
LIBRARIES	React, Express, FastAPI, Numpy, pandas, scikit-learn
MATHEMATICS	Probability Theory, Functional Analysis, Statistics, Graphs in Machine Learning

## PROJECTS

COLOR THERAPY | JAVASCRIPT, REACT, SPOTIFYAPI, GIT  
[www.colorthrapy.io](http://www.colorthrapy.io)

Color Therapy lets you generate accurate Spotify playlists based on emotions and colors.

NEURAL STYLE TRANSFER WEB APP | JAVASCRIPT, REACT, PYTHON, FASTAPI, PYTORCH, GIT  
[github.com/quentinv72/NeuralStyleTransfer](https://github.com/quentinv72/NeuralStyleTransfer)

Web app that lets user upload an art image and a personal image, and transfer the style of the art image onto the personal image.

URL SHORTENER APP | JAVASCRIPT, REACT, EXPRESS, NODE.JS, SQLITE, AUTH0  
[github.com/quentinv72/URL-shortener](https://github.com/quentinv72/URL-shortener)

URL shortener app with user login.

PERSONAL WEBSITE | JAVASCRIPT, REACT  
[quentinv72.github.io](http://quentinv72.github.io)

TWITTER INFORMATION SPREAD | PYTHON, MATLAB, ODES  
[drive.google.com/file/d/1CH-kEWi3VG3v6ZkBc8sCXcOW4\\_V1T1iH/view?usp=sharing](https://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