

# 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 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 | 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