Quentin Vilchez

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WORK EXPERIENCE

CORNERSHOP BY UBER | Backend Engineer (Integrations)   Toronto, ON | July 2020 – Present

- Develop data pipelines to integrate our partners' catalogue data into the Cornershop app.
- Create internal tools to integrate our partners' loyalty programs into the Cornershop app.
- Assess the coding challenges submitted by candidates for software engineering roles.
- **Tools:** Python, Pandas, Scrapy, Docker, PostgreSQL, Flask, Kubernetes, Airflow.

ARZELA | Co-Founder | www.arzela.io   Toronto, ON | May 2018 – June 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.

SKILLS

Languages (Code)	Python, JavaScript, Node.JS, Go, HTML/CSS, R, MatLab, SQL
Technologies	Git, Docker, Linux, Airflow
Mathematics	Probability Theory, Functional Analysis, Statistics, Graphs in Machine Learning
Languages (Bilingual)	English, French

PROJECTS

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

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

SPOTIMAND | Go
github.com/quentinv72/spotimand
Simple shell app to control your Spotify player.

NEURAL STYLE TRANSFER | Pyhton, FastAPI, Pytorch, JavaScript
github.com/quentinv72/NeuralStyleTransfer
Web app that lets you generate images using the neural style transfer algorithm.

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.

EDUCATION

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

AWARDS

UNIVERSITY COLLEGE ALUMNI SCHOLARSHIP (UNIVERSITY OF TORONTO)

WINNER OF THE UNIVERSITY OF TORONTO DATAFEST