

# Thibaud Roy

B.S IN COMPUTER SCIENCE AT MCGILL UNIVERSITY

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## Education

### McGill University

BACHELOR OF SCIENCE, MAJOR IN COMPUTER SCIENCE, MINOR IN STATISTICS

CGPA: 3.9/4.0

Quebec, Canada

Exp. Graduation in 2024

- **Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Functional Programming, Operating Systems, Probability, Statistics

### Stuyvesant High School

CGPA: 94 | ACT: 35

New York, NY

Sep. 2016 - Jun. 2020

## Work Experience

### Obedio

ANALYST

New York, NY

Jun. 2021 -

- Extracted data from FDA Adverse Event Reports using Python and SQL hosted on Amazon Web Services and visualized insights learned with Power BI to direct strategy for a pharmacovigilance startup
- Collaborated with leaders in the drug regulation and natural language processing industries to help develop a SaaS Platform Start-up providing Adverse Event identification, evaluation and reporting functionalities to the Life Science Industry

### Montreal Clinical Research Institute

LAB ASSISTANT

Quebec, Canada

Jul. 2019 - Aug. 2019

- Sequenced subunits of RNA Polymerase III through cloning and amplification of e. Coli bacteria with a desired gene insert
- Initiated international collaboration through OpenNotebook.org with laboratories in the United States, Canada, Netherlands, and China

## Extracurricular Activity

### McGill Biodesign Team

RESEARCHER

Quebec, Canada

Sep. 2020 - May. 2021

- Researched a microbial fuel cell powered by mixotrophic algae biomass to provide a net-zero emissions energy source as a member of the ALGO research team
- Developed a prototype that utilized a centrifugal type process to extract the biomass and that placed top 10 in McGill's impact200 Bicentennial Student Sustainability Challenge

## Projects

### Vegetation Density Analysis from LandSat 8

PYTHON

New York

Dec. 2020 - Jan. 2021

- Developed a repository connected to EarthEngine's API that allows for vegetation density analysis anywhere in the world from satellite imagery using NDVI, SAVI, and EVI indices
- Analyzed the impact of climate change, forest fires, and urban development on vegetation density in Banff, Alberta, Canada

### Portfolio Optimization Algorithm

PYTHON

New York

Dec. 2019 - Jan. 2020

- Utilized Alpaca's API to determine and implement optimal Iron Condor options trading strategy from historical stock market data

## Skills/Interests

<b>Programming</b>	Python (Pandas/NumPy), JAVA, C, SQL, OCaml
<b>Other Software/Tools</b>	Bash, Git, Excel, AWS
<b>Languages</b>	English, French
<b>Interests</b>	Surfing, Canoe-Camping, Traveling