

JOHN LIN

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EXPERIENCE

Software Engineer

Jul. 2023 to present

Stealth Startup, Machine Learning Platform

- Designed and implemented system architecture for a no-code automated statistical analysis and ML platform.
- Developed the architecture for a synthetic data generator to create test fixtures for ML model validation.
- Piloted cross-OS development through containerized development environments for developer consistency.

Software Developer Intern

May 2022 to Jan. 2023

SSENSE, Platform/Shared Services

- Implemented and deployed an automated PubSub subscription manager for message queues, reducing multiple bottlenecks and manual configuration to a single step, saving 50+ developer-hours/month.
- Designed and deployed a Jenkins pipeline for API Gateway logging configuration in 8 different business domains, reducing manual configuration and errors while ensuring reproducibility.
- Collaborated closely with DevOps and SREs for automating E2E testing and infrastructure benchmark monitoring.
- Tech stack: Python, Typescript, React, Git, AWS, Docker, Jenkins, Jira, Confluence, Datadog, Kubernetes

Research Assistant, Lab Technician

Jan. 2019 to Nov. 2021

Research Institute of the McGill University Health Centre, Infectious Diseases and Immunity in Global Health

Supervisor: Dr. Jean-Pierre Routy, MD, FRCPC

- Determined statistical correlations between biological markers and health outcomes through wet lab and clinical studies in people living with chronic infectious diseases such as HIV and cytomegalovirus (CMV).
- Contributed to over [25 scientific publications](#), including 4 articles as first author.
- Secured grants over \$1,000,000 to further lab research in GI health in people living with HIV.

EDUCATION

Concordia University, BCompSc (GPA: 3.90)

Sep. 2020 to May 2023

Bachelor of Computer Science; Computer Science General Program

- Relevant coursework: Data structures and algorithms, data analytics, big data, machine learning (ML), artificial intelligence (AI), databases (MySQL), web development, information retrieval and web search

McGill University, MSc

Sep. 2016 to May 2019

Master of Science; Experimental Medicine,

- Thesis: IL-6 signalling in pulmonary exacerbations in Cystic Fibrosis, for Dr. Simon Rousseau, PhD

McGill University, BSc

Sep. 2012 to Jun. 2016

Bachelor of Science; Biological, Biomedical and Life Sciences, Physiology

SKILLS

Python, C/C++, Java, TypeScript, Git, Jenkins, AWS, SQL, Apache Spark, Docker, Kubernetes, CI/CD, Hadoop, Big Data

SELECTED PROJECTS

Automated NLP on Targeted Subdomains

Sep. 2023 to Oct. 2023

[GitHub Repository](#) | Python, Docker, Scrapy, Scikit-Learn, AFINN, GitHub Actions

- Automated web scraping on a targeted subdomain, extracting text tokens using ETL techniques for K-means clustering and sentiment analysis.

Predicting COVID-19 Waves

Dec. 2021 to May 2023

[GitHub Repository](#) | Python, Pandas, NumPy, Matplotlib, Seaborn, Cufflinks, Facebook Prophet, Jupyter

- Used ETL techniques, ML and synthetic data along with Facebook Prophet to predict future waves of COVID-19 in Canada using data provided by Health Canada.

Ticket Price Bot

Apr. 2023 to May 2023

[GitHub Repository](#) | Python, BeautifulSoup4, GitHub Actions

- Created a web scraper/data miner that collects ticket pricing data, then parses it into a webhook payload using REST APIs. Runs on a CI/CD pipeline using GitHub Actions.