

Shivam Ajmera

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TECHNICAL SKILLS

Languages: C/C++, Python, Spark, SQL, Javascript, HTML/CSS, R, Schema

Frameworks: Angular, React, Node.js, Django, Selenium, JMeter

Tools: Git, Docker, Memcached, Google Cloud Platform, Kafka, Postman, Airflow

Libraries: pandas, NumPy, Matplotlib, scikit-learn, Flint, Faust

EXPERIENCE

Scotiabank

Data Scientist

Jan. 2021 – Present

Toronto, ON

- Currently working on rebuilding the trading activity pipeline using **Faust** by **Robinhood**, **Kafka**, **SFTP** and **Docker**. Aiming to reduce **millions** of API calls and process events in **real-time**.
- Rebuilt **feature engineering** for all ML models, reducing run-time by **10x** using **Spark**'s parallel processing.
- Increased scalability by **400%** (reducing **100,000+** hourly database hits) using **Memcached** servers along with **Django**'s cache backend.

Scotiabank

Software Engineer

Sep. 2020 – Dec. 2020

Toronto, ON

- Reduced licensing costs by an upwards of **\$10,000** yearly by building custom features for a non-premium version of an **Angular** library.
- Spearheaded development of a **load testing** framework for SPAs increasing automation coverage to **100%**, using **Selenium** and **Apache JMeter**.
- Improved **time series** modeling speed by **20x** using **Flint** for Spark by **Two Sigma**.

PROJECTS

Ardor | *Python, Django, Google Cloud Vision*

- Similar concept **patented** by **Spotify** 1.5 years later.
- Developed a web application using **facial recognition** and **sentiment analysis** along with a **custom predictive algorithm** that generates entertainment recommendations based on the user's emotions.
- Finished **Top 10** amongst **600+** participants at Hack The Valley 4, University of Toronto.

Connec-ted | *Node.js, Twilio*

- Developed a **bot** that interfaces SMS sent from client and provides desired directions/news progressively, for those **without any internet access**.
- Won the **People's Choice Award** at Winhacks, University of Windsor with **400+** participants.
- Featured on **MLH's** global livestream.

Who's Coffin | *Spark AR Studio*

- Developed and published an **Augmented Reality** filter for Facebook and Instagram.
- Won the **Facebook Spark AR challenge** at TOHacks 2020 with **600+** participants.
- Featured on **Facebook's Official Spark AR page** and on **MLH's** instagram page.

EDUCATION

University of Waterloo

Bachelor's of Computer Science

2019 – Present

CGPA: **88.06%**, Major Average: **90.67%**

AWARDS

- University of Waterloo - President's **Scholarship** of Distinction.
- UAE **Finalist** at Cyber Security Forensics Competition '17 by **NYU Engineering**.
- Only student to be awarded **class clown** for 2 consecutive years ('15 & '16). Warned the next year for being too funny.