Shivam Ajmera

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EDUCATION

University of Waterloo

2019-Present

Bachelor's of Computer Science

Waterloo, ON

• Major Average: 90.67%

• Relevant Coursework: Data Structures and Data Management, Object-Oriented Software Development, Foundations of Sequential Programs, Computer Organization and Design, Introduction to Combinatorics

EXPERIENCE

University of Waterloo

May 2021 – Present

Research Assistant

Waterloo, ON

- Working with Professor Samer Al-Kiswany as part of the Waterloo Advanced Systems Lab.
- Currently characterizing Kubernetes performance when used as a platform for serverless functions such as AWS Lambda and Knative.

Scotiabank

Jan 2021 – Apr 2021

Toronto, ON

Data Science Intern

- $\bullet \ \ {\rm Developed} \ \ {\rm new} \ \ {\rm trading} \ \ {\rm activity} \ \ {\rm pipeline} \ \ {\rm to} \ \ {\rm process} \ \ {\rm orders} \ \ {\rm in} \ \ {\rm \bf real-time} \ \ {\rm \bf using} \ \ {\rm \bf Kafka}, \ {\bf Docker} \ \ {\rm and} \ \ {\bf Faust}.$
- Optimized feature engineering for all ML models, reducing run-time by 11x using Spark's parallel processing.
- Increased scalability by 400% using Memcached servers along with Django's cache backend.

Scotiabank

Sep 2020 – Dec 2020

Software Engineer Intern

Toronto, ON

- Reduced licensing costs by >\$10,000 per year by building custom features for a non-premium Angular library.
- Spearheaded development of a **load testing** framework for SPAs increasing load 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 computer vision and sentiment analysis along with a custom collaborative filtering model using kNN, 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, to 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.

TECHNICAL SKILLS

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

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

Tools: Git, Docker, AWS, Kubernetes, GCP, Kafka, Knative, Airflow, Memcached, Postman

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