

Shivam Ajay Saraf

Github.

Email : sasaraf@uwaterloo.ca

Mobile : +1-647-569-5470

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, C++, C, SQL, Scala, Schema, HTML, CSS3.
- **Technologies:** NodeJS, React, Numpy, Pandas, Spark, SparkSQL, Apache Hadoop, Apache Cassandra, MongoDB, AWS, Mongoose, Jest, Kotlin, Dart, Docker, Airflow, AJAX, Git, Github, Jira, Jenkins, LaTeX.

EXPERIENCE

- **Novantas Inc.** Toronto, CA
Data Engineer May 2020 - Present
 - **Assisted** in the design and implementation of **Spark Pipelines** that ingest more than 500 GB of data through clients.
 - Extensively used **Scala** and **Spark** to improve the performance and optimization of the existing algorithms/queries in **Hadoop** and **Hive** using **Spark Context**, **Spark-SQL** and **Pair RDD'S**.
 - Worked on performance tuning in **Hive** and **Impala** using multiple methods such as **dynamic partitioning** and cost based optimization coupled with the creation of several dashboards and worksheets in **Tableau**.
- **Coffee 'N Code** Waterloo, CA
Senior Project Lead Jan 2020 - April 2020
 - Responsible for organising and developing a **4 month course** to educate people of all age groups in the **Python Programming Language**.
 - **Course content** revolved around building strong foundational concepts in **Object Oriented Programming** in order to be comfortable developing **2-Dimensional games** on the platform.
 - Recorded a massive turnout of over **300 students** from all the faculties in the University.

PROJECTS

- **Connec-Ted** Windsor, CA
Node JS, Twillio. March 2020
 - Developed a **bot** that interfaces SMS sent from a client and provides desired **directions** and **news without internet access**.
 - Won the **People's Choice Award** at Winhacks, University of Windsor with over **400** applicants.
- **Chat-Time** Waterloo, CA
Express, MongoDB, NodeJS, Mongoose. June 2020
 - Built a full-fledged web application allowing **real-time chatting** between multiple clients and the server.
 - Inculcated **websockets** to establish connection between various clients and utilized **Mongoose** to store user-authentication details in the **MongoDB Database**.
- **Parse-Please?** Waterloo, CA
Python, BeautifulSoup, Matplotlib, Numpys, Pandas. November 2019 - December 2019
 - Developed a **Python Script** that scrapes data from multiples websites to generate an Excel Sheet containing details of the top **100 movies** at the moment.
 - Created models using **Pandas** and **Matplotlib** to perform **predictive analysis** in order to demonstrate the discrepancies in the ratings given by harsh critics, such as **Rotten Tomatoes**.

EDUCATION

- **University of Waterloo** Waterloo, CA
Bachelors in Computer Science; GPA: 3.5 September 2019 - Present