

Karanjot (KJ) Pabla

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in /kjpabla
/kjpabla
kjpabla.github.io/kjsite

Education

Honours Bachelor of Science, Computer Science Co-op
Brock University

September 2017 – December 2021
St. Catharines, Ontario

Experience

Software Developer (Co-op)

AIR MILES®

May 2021 – August 2021

Remote (Toronto, ON)

- Serviced **back end** solutions for AIR MILES® services leveraged by **100's** of different vendor partners using **Postman API, Scala, Java, Jenkins, AWS, and Node**, allowing all **11** million collectors to access valid promos
- Automated Miles Collection report generation for **25** partners, easing report generation for the finance team by generating reports every week in under **5** minutes using **AWS Glue, Jenkins, Python, and Spark**
- Generated **3** new audiences in **Auth0 APIs** to allow Shell Gas access using **Postman, Java, Scala, and AWS**
- Piloted the integration of **SignalFX** to monitor Health in **3 Java** based AIR MILES® essential digital services

Junior Software Developer (Co-op)

Ontario Ministry of Transportation

May 2020 – August 2020

Remote (St. Catharines, ON)

- Developed features and bug fixes for a Web-App using **JavaScript, React, Pipelines, SQL, and Node.js**, collaboratively within an agile team of **6**, following **Git version control**; digitalising ministry learning
- Kickstarted **Automated Testing** for the branch by **automating** all **30 regression tests** for a Ministry Web-App with **Selenium, JavaScript, Azure Cloud, and REST APIs**, catching **75%** of potential bugs within the **1st** month

Junior Data Science Developer (Co-op)

Ontario Ministry of Transportation

January 2020 – May 2020

St. Catharines, ON

- **Analyzed** a major Ontario Highway's vehicle collision data using **dashboards** in **Power BI**, with **ETL** tools like **Python, Spark, and Jupyter Notebooks**, identifying **5** factors that can cause secondary vehicle collisions
- Researched and implemented a program to provide **sentiment analysis** of a Ministry Websites' forum email responses, communicating objectives, and creating **scripts** in **Python** to aggregate **Big Data** in **JSON** format for **Machine Learning** based **Sentiment Analysis**, proposing **2** deployment options using **MongoDB, or Azure**

Software QA Analyst (Co-op)

Ontario Ministry of Health

May 2019 – August 2019

Toronto, ON

- Cemented ambulance software capabilities by **50%**, leading **SIT & UAT** with **5** QAs using **Jira & Confluence**
- Updated **150 Windows** PCs and **Linux** Servers found in every Ontario Ambulance Communication Centre

Skills

Programming Languages Python, JavaScript, TypeScript, Scala, Java, C++, SQL, PHP, Shell

Databases & Back End AWS Cloud, AZURE Cloud, PostgreSQL, MongoDB, SQL Server Mgmt. Studio, DataGrip

Data Science Spark, Anaconda, Power BI, Jupyter Notebooks, Databricks, Google Analytics, PyTorch, TensorFlow

Web & Automation React, Node.js, Html, css, Selenium (WebDriver, IDE), Mocha, Postman API

Other Bash, MAC OS, Windows OS, Linux, Azure DevOps, CI/CD Pipelines, Git, GitHub, Jira, Confluence, Jenkins, Splunk, SignalFX, IntelliJ IDEA, AWS CDK, AWS Lambda, AWS DynamoDB, AWS Glue, AWS CLI, Docker, VS Code, ...

Academic Projects

Machine Learning Cryptanalysis Program

Brock University

November 2019

St. Catharines, Ontario

/kjpabla/GA-Implementation

- Achieved **100%** score for developing a detailed Technical Report, and implementation of the Genetic Algorithm in **Java** for **security** applications