# SATRIPLEEN KAUR

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## Skills

- Languages : Java, Javascript, HTML - CSS
- Frameworks : SpringBoot, SoapUI
- Database: mySQL, postgres, DynamoDB (noSQL)
- Tools/Technologies/others: Data Structures, Jira, GIT, RestAPI, SPA , Operating System, AJAX, OOPS

## Work History

### Analyst Intern

07/2018 to 11/2019

**Siemens Limited** – Gurugram, India

- In the initial 8 months of the internship, I worked on electrical designs and later switched to a near development role (analyst) as I was interested in technology and wanted to pursue a career in development. Hence I participated in java development for shorter duration than my total experience
- Worked at Siemens in a substation automation project. Was responsible to understand the requirements of clients and work along with electrical designers to develop scripts and backend application in springBoot for basic CRUD operations. I was the sole member in the team working on development and testing of the java application.
- Developed api testing modules on SoapUI to test REST APIs created on SpringBoot . Created test scripts and relevant data on database to test features. Tracked bugs on Jira on routinely basis.
- Was part of bug fixing on day to day basis. Used SonarQube static analyser to test my java code for bad practices.
- Created AWS lambda functions, to copy data from S3 bucket (on addition of new file) to DynamoDB.
- Constantly communicated with the client to understand the requirements and demo the project at the end of sprint.

## Education

**Master of Engineering**: Electrical And Computer Engineering — Expected in 04/2021
**University Of Waterloo** - Waterloo
GPA: 3.88/4

**Bachlor's of Engineering** : Electrical And Computer Engineering — 06/2017
**Thapar University** - India
GPA: 9.22/10

## Academic Projects

- Created a single page application to display top news, on reactJS, hosted on AWS : http://50.17.82.213:3000/ .
- Created a java microservice based project to scan reports on virustotal, hosted on AWS : http://34.207.151.105:8000/ .
- Building Image Hashing Model using VP- Tree Data Structure using Python: Made a model for searching the image from dataset in O(log n) time complexity using VP-Tree data-structure.Then compared the state-of-art technique with classical searching method.
- Prediction of COVID-19 cases using Python: Made a model to predict the cases using Higher Order Time series Analysis. Then compared the results using traditional RNN techniques. In the end predicted the results using LSTMs, Bi-directional LSTMs and Time intervals partitions.
- Fake News Challenge Prediction: Made a program to predict the fake news using BERT (Bidirectional Encoder Representations from Transformers). Then compared the results using Conditional Encoder, Bi-directional Encoder.
- Reviewing different fingerprint image hashing algorithms: Reviewed Perceptual Image Hashing based on shape and Local Features of fingerprints and Image Hashing using Ring Partitioning. Then compared both the methods based in its Statistical and Computational Features.
- Sentimental Analysis using Python: Worked on Amazon Review Dataset for prediction of sentiments of customer and made a model using classical method (Naïve Byes classification) and Convolutional Neural Network.