

# Udbhav Prasad

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[Portfolio: udbhavprasad.com](#)

## Work Experience

### Application Programmer, Ministry of Health and Long-Term Care (MOHLTC) Sep 2020 – Dec 2020

- In the need to find the maximum users the server could handle, I created JMeter scripts to Performance Test SAS Viya and Cognos reports which resulted in determining the server constraints and bottlenecks

### VP of Finance, IEEE Ryerson University Student Branch

Aug 2020 – Nov 2020

- I oversaw funding for IEEE Events. I applied and presented to various organizations securing funding for the IEEE Ryerson Coding Competition

## Education

**Ryerson University | Toronto ON**  
**Computer Science – BSc (Co-op) Sep 2018 – May 2023**  
CGPA: 3.75 (Dean's List '19- '20)

### Majoring in Computer Science

- Data Structures
- Object Oriented Programming
- Functional Programming

### Minoring in Mathematics

- Calculus & Computational Methods
- Linear Algebra
- Discrete Mathematics

## Technical Skills

Languages	Technologies	Libraries
<ul style="list-style-type: none"><li>• Python</li><li>• Scala</li><li>• SQL</li><li>• Java</li><li>• C</li></ul>	<ul style="list-style-type: none"><li>• Apache Spark</li><li>• Apache JMeter</li><li>• Tableau</li><li>• SQLite</li><li>• MS Office</li><li>• Linux &amp; UNIX</li><li>• Git</li></ul>	<ul style="list-style-type: none"><li>• PyTorch</li><li>• Keras</li><li>• Scikit-Learn</li><li>• Spacy</li><li>• NLTK</li><li>• Numpy</li><li>• Pandas</li><li>• Matplotlib</li><li>• Seaborn</li></ul>

## Projects

(Code on GitHub)

### Stock Price Prediction with LSTMs

Data Analysis | Time-Series Analysis  
| Deep Learning |  
May 2020

- Using Long-Short Term Memory Recurrent Layers to predict Stock Prices based on previous 59 values
- Implemented multiple models for a variety of stocks both in PyTorch & Keras
- Stock data visualized using Tableau and Seaborn

### Credit Card Fraud Detection with Spark

Big Data | Data Analysis |  
Machine Learning |  
April 2020

- Using Scala API for Apache Spark, run on a local cluster
- Used Random Tree Classifier for Binary Classification to achieve a 90 percent Test Accuracy

### Generating Fake Faces with Convolutional Variational Autoencoders

Dimensionality Reduction | Computer Vision | Deep Learning |  
August 2020

- An Unsupervised Learning Model (Autoencoder) that learns to map important features of faces
- Compresses Images to 2-Dimensional Continuous Representation
- Interpolation across latent space creates faces of people that never existed