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## ► SKILLS

**PROGRAMMING LANGUAGES:** Python, Java, C, MATLAB, JavaScript, SQL, Bash/Shell, HTML, CSS/SCSS

**SOFTWARE/FRAMEWORKS:** TensorFlow, Numpy, Keras, Git, Linux, Scikit-Learn, IntelliJ IDE, JIRA/Stash, Jekyll, LaTeX

**SPOKEN LANGUAGES:** English, Russian, Azerbaijani

## ► EMPLOYMENT

### Ryerson University

May 2018 to Aug. 2018

Research Assistant

Worked as a research assistant in a computer vision lab, doing research on image generation using convolutional neural networks. Contributed to the paper "Convolutional Photomosaic Generation via Multi-Scale Perceptual Losses" accepted to the Workshop on Computer Vision for Fashion, Art and Design at the European Conference on Computer Vision (ECCV).

- Implementation of self-supervised architecture
- Running experiments and performing qualitative evaluation
- Search for hyper-parameters
- Implementation of and comparison to baseline experiments (i.e. comparing against nearest neighbour based on average intensity and SSIM)

### University of Toronto

May 2017 to Aug. 2017

Junior Developer

Working in an agile team, contributed to a large project to migrate the Repository Of Student Information (ROSI) from an IBM Mainframe to a distributed Linux platform running IBM WebSphere and DB2 RDBMS.

- Implementing Java code to handle the execution of various batch jobs on IBM WebSphere
- Conversion of mainframe JCL to Job Specification Language coded in XML
- Debugging existing code and testing output of various SQL queries
- Using a RESTful interface to submit test batch jobs and debugging the ones that failed to complete successfully

## ► PROJECTS AND VOLUNTEERING

### Face Detector

Jan. 2018 to May 2018

Implemented a functional face detector in MatLab (later ported to Python/Numpy) using an SVM. Handled overlapping detections with mean IoU. Added data augmentation and hard negative mining to improve performance. Draws rectangles over detected faces in an image.

### JavaStore

Sept. 2018 to Dec. 2018

Using JDBC and Swing, implemented a front and back end for a POS system using Java and Oracle SQL. Used Java's Swing package to create a front end which connects to an Oracle database for querying, sales, and employee management.

### nsaftarli.github.io

Apr. 2017 to Present

Personal website hosted by GitHub Pages. Built using HTML/SCSS/JavaScript, and later converted to Jekyll for ease of templating and blog support. Static and responsive. Used to document personal projects, link to resume, and blogging.

### RVLPage

Oct. 2017

Static webpage built for the growing computer vision lab at Ryerson University. Lists contact information for lab directors and members, and their respective publications, as well as news about the lab.

### HN Scraper

Dec. 2016

Uses Python and Scrapy library to pull article titles and links from HackerNews. Stores all relevant information in a new JSON file daily. Intended to be used for storing articles for later reading when pre-requisite knowledge is missing.

## ► EDUCATION

### Ryerson University

Bachelor of Science in Computer Science

Expected Graduation: August 2019

Minor in Mathematics, cGPA 3.90/4.33

Dean's List 2015-2018

### MOOCs

Machine Learning (Coursera)

Neural Networks and Deep Learning (Coursera)

Web Developer Bootcamp (Udemy)