NARIMAN SAFTARLI

SOFTWARE DEVELOPER

saftarli.n@gmail.com nsaftarli.github.io (647)-248-5422 Toronto, Canada nsaftarli nsaftarli nsaftarli

SKILLS

PROGRAMMING LANGUAGES: Python, Java, C, JavaScript, MATLAB, SQL, Bash/Shell
SOFTWARE/FRAMEWORKS: TensorFlow, Numpy, Keras, Git, Linux, Scikit-Learn, Bootstrap, IntelliJ IDE, JIRA/Stash
OTHER: HTML, CSS/SCSS, Jekyll, Liquid, XML, JSON, LaTeX
SPOKEN LANGUAGES: English, Russian, Azerbaijani

EMPLOYMENT

Ryerson University
May 2018 to Aug. 2018

Research Assistant

Worked on the paper "Convolutional Photomosaic Generation via Perceptual Loss" accepted to the Workshop on Computer Vision for Fashion, Art and Design at the European Conference on Computer Vision (ECCV).
- Responsible for most coding duties and implementation of architecture
- Running experiments and performing qualitative evaluation
- Hyper-parameter searching
- Implementation of baseline experiments using non-learned approaches (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

Convolutional Photomosaic Generation via Perceptual Loss
Dec. 2018 to Present

Given a target image and a set of template images, recreates the target image by finding a template placement which minimizes a perceptual loss. Uses an encoder-decoder architecture, and continuous temperature relaxation to encourage a unimodal template distribution. Compared against non-learned approaches for template selection (e.g. SSIM) and found our method significantly outperformed these approaches.

RVLPage
Oct. 2017 to Present

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.

nsaftarli.github.io
May 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. Work in progress.

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.

MatrixOps
Jan. 2017

Implementation of a basic calculator for performing operations on matrices. Operations include multiplication, addition, and adjoint. Storage of matrix data is done using one-dimensional Array List objects. Uses Java's Swing and Event packages for the GUI.

EDUCATION

Ryerson University
Bachelor of Science in Computer Science
Expected Graduation: May 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)