Amar Jasarbasic

(+1) 613-265-4891 amarjasarbasic@gmail.com linkedin.com/in/amarjasarbasic/ github.com/AmarJ

Experience

Data Engineer Intern, **Shopify**
Ottawa, Canada – *September 2018 - Present*

- Currently working on Shopify's Data Acceleration team that **extracts, transforms and processes** large amounts of merchant and customer data **(Python/Scala)**

Technology Analyst Intern, **Morgan Stanley**
Montreal, Canada – *January 2018 - May 2018*

- Developed an internal application that uses **natural language processing** and **computer vision** to automate the process of validating and extracting information from financial and legal documents **(Java)**
- Researched and implemented the use of **GPUs** for a transaction screening machine learning model, drastically **reducing the time and resources** needed for my team to generate up to date models **(C++/CUDA)**
- Selected as a **finalist** to showcase my intern project to the Montreal office **executive team**

Design Verification Engineer Intern, **NXP Semiconductors**
Ottawa, Canada – *May 2017 - August 2017*

- Developed **embedded software** for the LX22160 network processing SoC **(C/Perl/C++)**

Education

BASc Software Engineering, **University of Ottawa**
Ottawa, Canada – September *2016 - December 2020 (Expected)*

- Currently in **third year**
- Chair of Engineering Endowment Fund
- Vice-Chair of the IEEE uOttawa student branch
- Men's Waterpolo Team
- Founding member and sponsorship director for uOttaHack

Projects

Convolutional Neural Network | github.com/AmarJ/CNN

- Building my own convolutional neural network (CNN) completely from scratch **(C/C++)**

Darknet Convolutional Neural Network Framework (Open source) | github.com/AmarJ/darknet-NN-framework

- Boosted performance when detecting objects in a large batch of images by implementing multi-threading for network prediction and load balancing among threads **(C/C++/CUDA)**

Graph Cut | github.com/AmarJ/GraphCut

- Developed a tool that extracts the foreground of an image using graph theory **(Java)**
- Implemented Boykov-Kolmogorov's Min-Cut/Max-Flow algorithm to segment foreground pixels from background pixels in an image

Skills

Languages: C, C++, Python, Java, Perl, Scala, Javascript, Typescript, HTML, CSS, SQL

Technologies: Git, Angular, Tensorflow, CUDA, OpenCV, Spark ML, Spring, Stanford CoreNLP, Azure, AWS, Hadoop, MongoDB, DB2