# 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 a **data modelling tool** implemented on **Apache Spark** as part of Shopify's Data Acceleration team **(Python/Scala)**

**Chair**, **University of Ottawa | Engineering Endowment Fund**
Ottawa, Canada – *May 2018 - May 2019*
• I manage a fund of **$110,000** for student entrepreneurship initiatives, design competitions, and student conferences. I review student proposals and pitches throughout the year to determine funding allocation.

**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**
• Vice-Chair of the IEEE uOttawa student branch
• Men's Waterpolo Team
• Founding member and sponsorship director for uOttaHack

## Projects

**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-threaded network predictions 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,Tensorflow, Numpy, CUDA, OpenCV, Spark ML, Pandas, Stanford CoreNLP, MongoDB, Scikit-learn, MXnet