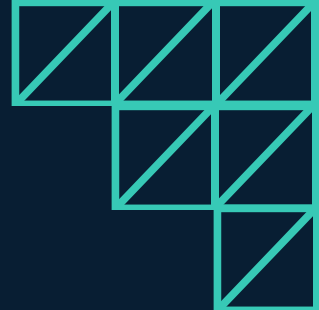




# AMAR JASARBASIC

## SOFTWARE ENGINEER



### CONTACT

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Ottawa, Canada

### LANGUAGES

C

C++

Java

Python

Perl

Javascript

HTML/CSS

### TECHNOLOGIES

Git

Tensorflow

jQuery

Vim

OpenCV

Firebase

Google Cloud Platform

AWS: EC2, EBS, S3, Elastic Beanstalk

### AWARDS

**1st Place Software Engineering**

**Startup Pitch Competition for uzer.ca**

*uOttawa - November 2016*

**Deloitte Changemaker Scholarship**

*Deloitte Canada - May 2016*

**Admission Scholarship**

*uOttawa - May 2016*

*May 2017*

### EXPERIENCE

#### **NXP Semiconductors**

*May-August 2017*

*Design Verification Engineer (Co-op)*

*Ottawa, Ontario*

- Developed embedded software in C and C++ for the LX22160 network processing SoC
- Designed and implemented a tool in production that extracts comments from my team's source code and generates an interactive web application to display the software's documentation for NXP customers

### EDUCATION

#### **University of Ottawa**

*2016-Present*

*BASc Software Engineering (GPA: 3.7 [A-])*

*Ottawa, Ontario*

- Men's Waterpolo Team
- VP Academic for IEEE Ottawa Student Branch
- Founding member and sponsorship for uOttHack hackathon

#### **Lisgar Collegiate Institute**

*2012-2016*

*Ontario Secondary School (Gifted Program)*

*Ottawa, Ontario*

- Founder of the Lisgar Engineering Club
- Extended French program (DELF B2)

### PROJECTS

#### **Kaptur**



*Kaptur uses machine learning to identify logos present in social media images*

- Trained a convolution neural network on a data set with 27 different logo classes
- Applied data augmentation techniques (flips, random crops, color jittering and lighting noise) in order to turn a 810 image data set into 200,000 training images

#### **Darknet Neural Network Framework (Open source)**



*Open source neural network framework written in C and CUDA by Joseph Redmond*

- Boosted performance when detecting objects in a large batch of images by implementing multi-threading for network predictions and load-balancing among threads

#### **GraphCut**



*GraphCut extracts the foreground of an image using graph theory*

- Implemented Boykov-Kolmogorov's Min-Cut/Max-Flow algorithm in order to segment foreground pixels from background pixels in an image