AMAR JASARBASIC

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EXPERIENCE

Morgan Stanley | Technology Analyst (CO-OP)

JANUARY 2018 – MAY 2018 | MONTREAL, CANADA

- Developed an internal application that uses **natural language processing and computer vision** to **automate the process** of validating and extracting information from financial documents
- Researched and implemented the use of GPUs for machine learning training, **drastically reducing** the **time and resources** needed for teams to generate machine learning models
- Selected as a **finalist** to showcase intern project to the entire Montreal office

NXP Semiconductors | Design Verification Engineer (CO-OP)

MAY 2017 – AUGUST 2017 | OTTAWA, CANADA

- Embedded software development in C and C++ for the LX22160 network processing SoC

EDUCATION

University of Ottawa | BASc Software Engineering | GPA 3.7 [A-]

SEPTEMBER 2016 – PRESENT

- Men's Waterpolo Team
- Founding member and sponsorship director for uOttaHack hackathon
- Chair of Engineering Endowment Fund
- Vice-Chair of the IEEE Ottawa Student Branch

Awards:

Admission Scholarship
uOttawa – SEP 2017, 2016

1st Place Software Engineering Pitch Competition for uzer.ca
uOttawa – NOV 2016

Deloitte ChangeMaker Scholarship
Deloitte Canada – SEP 2016

PROJECTS

Convolutional Neural Network | GitHub

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

Darknet Convolutional Neural Network Framework (Open source) | GitHub

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

Graph Cut | GitHub

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

SKILLS

- **Languages:** C, C++, Python, Java, Perl, Javascript, HTML/CSS, SQL
- **Technologies:** Git, Tensorflow, Stanford CoreNLP, CUDA, OpenCV, Spark ML, Spring, CXF, AWS, Mongo DB, DB2