

Amar Jasarbasic

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Experience



Data Engineer Intern, Shopify

Ottawa, Canada – September 2018 - Present

- Worked on an internal **data modelling tool** implemented on **Apache Spark** as part of Shopify's Data Acceleration team (**Python/Scala**)
- Developed smoke screen tests to verify all functionality of the data modelling tool and ensure that all ETL pipelines run properly on the cluster



Chair, University of Ottawa | Engineering Endowment Fund

Ottawa, Canada – September 2018 - Present

- 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

- Built a predictive model that identifies suspicious client transactions (**Java**)
- Developed and trained a convolutional neural network for a logo detection system (**C++**)
- Researched and implemented the use of GPUs to speed up the process of training the network (**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**
- Men's Waterpolo Team
- Vice-Chair of the IEEE uOttawa student branch
- Founding member and sponsorship director for uOttHack

Projects

Convolutional Neural Network | github.com/AmarJ/CNN

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

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