

Gaurav Lath

DATA SCIENTIST · SOFTWARE ENGINEER

+1 519-729-8635 | glath@edu.uwaterloo.ca | www.gauravlath.com | gauravlath07 | gauravlath

Education

University of Waterloo, 3A, Computer Engineering

Waterloo, ON, Canada

BACHELOR OF APPLIED SCIENCES

Sept. 2015 - Summer 2020

- Relevant courses: Operating Systems, Digital Computers, Algorithms and Data Structures

Udacity Deep Learning Nanodegree

ONLINE

- Relevant courses: Sentiment analysis, Convolution Neural Networks, Generative Adversarial Networks, Recurrent Neural Networks
- Projects: Image Classification, Language Translation, Generating TV Scripts and Faces

Work Experience

CIBC Data Studio

Waterloo, ON, Canada

DATA SCIENTIST INTERN

Sept 2017 - Current

- Engineered a **supported vector machine** model to reduce false positives in credit card fraud detection by **800%**
- Improved the prediction accuracy of transaction breaks from **56% to 99.6%** by fine tuning **neural net** parameters thus automating work
- Engineered **data visualizations** for feature selection using **random forests** to identify sources of breaks in industry thus improving efficiency

Deloitte Innovation Labs

Kitchener, ON, Canada

SOFTWARE ENGINEER INTERN - DATA TEAM

Jan 2017 - Apr 2017

- Main developer on building a **data visualization** application for identifying market trends
- Scraped over **2TB** of public data using an ETL pipeline making a comprehensive db of market data
- Optimized data searching from 6.7 seconds to 2 seconds by configuring and setting up an **elasticsearch** server on AWS
- Built a **NLP module** which returns the sentiment polarity of a given topic in latest news
- Pro-actively worked on **consulting** engagements with clients by recommending latest technologies

D+H Financial Technologies

Toronto, ON, Canada

SOFTWARE ENGINEER

May 2016 - Aug 2016

- Developed dashboard to manage over **500 GB** of client data in a **SQL** database for major companies like Volkswagen and BMW
- Conceptualized one software to replace 6 softwares reducing maintenance hours by **800%**
- Gained a solid understanding about **project management** and software development life-cycle in an **agile** environment

Projects

Alegra

Toronto, Ontario

GIFT THE CODE

October 2017

- A web dashboard which analyzes the mental state of a user according to their social media profile using **NLP** and **image classification**
- Currently used by charity **Kids Help Phone** to **diagnose depression and anxiety**

Adivino

Cambridge, Massachusetts

HACK HARVARD

October 2017

- A **computer vision** application which displays real-time stats of sports persons during live games
- Detects players using face detection and OCR and predicts player stats and performance using **convolution neural nets**

Awards

2017 **Runners-up**, Hack Harvard, Project Adivino

Boston, USA

2017 **Winner**, Citadel Datathon, Awarded 1st prize and a sum of **\$5,000** among **100 teams**

Waterloo, Canada

2016 **Best Startup Award**, Canadian Undergraduate Technology Conference, awarded grant of **\$1,000**

Toronto, Canada

2015 **Presidents Scholarship**, Awarded to students entering the university with over **90%** average

Waterloo, Canada

Skills

Languages, Python, JavaScript, C++, C, C#

Databases, MySQL, Elasticsearch, NoSQL, MongoDB

Frameworks, Flask, Angular, Express, Node.js, .NET