Aditya Arora

Candidate for Bachelor of Applied Science in Honors Computer Engineering

linkedin.com/in/arora-aditya
github.com/arora-aditya
arora-aditya.com
aditya.arora@uwaterloo.ca
+1 (226) 899 1327

SUMMARY OF QUALIFICATIONS

- Leading a team of 10+ talented developers using strong interpersonal and communication skills as Web Lead at Waterloop
- Working towards a career in the field of Artificial Intelligence by making use of online courses and side projects
- Effectively self learnt D3.js visualization library in javascript using online resources to implement analytics dashboards at Fino Bank
- Built digital Monopoly using object oriented programming in C++
- Balanced school work and volunteering while maintaining top 10 rank throughout high school through effective time management skills

RELEVANT EXPERIENCE

WATonomous, Waterloo — *Perception Core Member*

January 2018 - Present

- Core Member of the perception team as part of GM's AutoDrive Challenge
- Implemented a 5% more efficient model to identify lane markings in OpenCV
- Improved existing traffic sign detection computer vision models in Tensorflow by 15% using hyperparameter tuning and regularisation

Waterloop, Waterloo — *Web Lead*

September 2017 - Present

- Redesigned the entire new website as part of revamped branding in Fall 2017 with the help of Embedded JS templating on a Node.js server
- Minimized code duplication on the new website using a template engine that allowed for 30% page load boost while making it easier to maintain
- Improved page load time by 20% by creating responsive vector images in D3.js instead of using heavier and less efficient frameworks

Fino Bank Ltd, Navi Mumbai — *Software Developer*

July 2017 - August 2017

- Improved efficiency of backend script by 300 times by using hash tables to implement an interactive dashboard to visualise revenue of top merchants and their sales breakdown
- Conceptualised, designed and implemented a dashboard to track the performance of new merchants month on month to predict merchants who had a better chance to increase the revenue
- Used D3.js for the dashboards and Python for the backend script

PROJECTS

Kaggle — *Data Science Competitions*

- Designed a deep neural network to predict the length of a New York City cab ride based on weather, time of day, co-ordinates for drop-off and pick up using tensorflow, numpy and pandas
- Implemented a tensorflow classifier to predict the chances of survival of a passenger on the Titanic based on ticket class, gender, age

SpeedReader — *Optimises reading*

- This project helps one read faster, up to 500 words per minute using rapid visual serial presentations
- Although still a work in progress, it is developed in d3.js and HTML

LANGUAGES AND TOOLS

• Python • numpy • C++ • SQL
• JavaScript • HTML • CSS
• Git • D3.js • Bootstrap • jQuery
• Bash scripting • Tensorflow
• Pandas • Node.js • OpenCV

HACKATHONS

BeerKart @ Hack The North 2017

Built UBER for empty beer bottles to promote recycling
Project built: bit.ly/BeerKart

whiZZit @ ETHWaterloo 2017

StackOverflow but with a cryptocurrency bounty
Project built: bit.ly/whiZZit

ONLINE COURSES

Neural Networks and Deep Learning by Andrew Ng

AWARDS

Honor's List

For rank 231 among 18000 students in Euclid Mathematics Contest organised by the Center for Education in Mathematics & Computing, University of Waterloo, 2017

President's Scholarship of Distinction

Awarded scholarship of $2000, along with $1500 for Research and $1500 for international student experience for use in later terms, 2017

IIT - Joint Entrance Exam

Among top 5000 students from over 1.2 million students in a Science and Mathematics test organised by Indian Institute of Technology, 2017