Aditya Arora
Data Engineer

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EXPERIENCE

Data Engineer — DraperAI
Jan 2019 - Present — Waterloo, ON

- Working to improve the keyword bidding algorithm to better target Amazon ads
- Using BigQuery and Pandas/Python to generate valuable insights from customer data

Data Scientist — CPAMI, University of Waterloo
Sep 2018 - Dec 2018 — Waterloo, ON

- Researched in Natural Language Processing in Python and Dialogflow for a grocery chain under Prof Karray to allow customers to ask contextual questions while in store
- Ported over existing solution from slower excel sheet frameworks to PostGresQL to improve net performance by over 30%

Full Stack/Data Science — LCBO|next
Apr 2018 - Sep 2018 — Kitchener, ON

- Wrote complete CRUD web apps and REST APIs from scratch with less than 0.1% downtime to serve data to multiple internal applications to serve LCBOs customers
- Managed and maintained the sole Kubernetes cluster to ensure uptime of containerised deployment running over 5 concurrent applications including an ElasticSearch instance
- Configured and maintained deployment pipelines on Visual Studio using TFS for Azure
- Debugged and productionised over 10000 lines of code in Ruby on Rails for a web app for LCBO's corporate customers such as Loblaws and Sobeys to use
- Ensured simultaneous uptime of LCBO|next's 10 internal API's and 5 web apps on Azure

Perception Core Member — WATonomous
Jan 2018 - May 2018 — Waterloo, ON

- 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

Web Lead — Waterloop
Sep 2017 - Mar 2018 — Waterloo, ON

- 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

Data Analyst — FINO Paytech
Jul 2017 - Aug 2017 — Mumbai, India

- Improved efficiency of backend script by 300 times by using hash tables in Python to implement an interactive dashboard to visualise revenue of top merchants and their sales breakdown and D3.js
- 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 revenue

LANGUAGES AND TOOLS

Python • BigQuery • Pandas • SQL
PostgreSQL • C++ • Tableau • Matlab
Node.js • JavaScript • Typescript
HTML • CSS Sass • ReactJS • jQuery
Bash • Tensorflow • MongoDB
D3.js • Dialogflow • ElasticSearch
Kubernetes • Keras • Jest • Pytest

EDUCATION

University of Waterloo
2A, Bachelors of Applied Science in Computer Engineering, 2017-2022

Term Dean's Honours List
For excellent academic performance in each of Fall 2018, Winter 2018 and Fall 2017

ONLINE SPECIALISATIONS

Deep Learning Specialisation by Andrew Ng on Coursera

PROJECTS

Kaggle
Designed a deep neural network to predict the length of a New York City cab ride based on weather, coordinates for drop-off and pick up using tensorflow, numpy and pandas

WaterlooWorks v2.0
Improves job search and filtering for students at UW, modernizing the user interface of the official job search platform

Leetcode/Euler
Written explanations and solutions to leetcode and project euler problems

Slackr
Light-weight command line slack clone, supports reminders and add-ons