Aditya Arora

Data Engineer

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EXPERIENCE

Data Engineer/Full Stack Developer — KitchenMate
Sep 2019 - Present — Toronto, ON

- Built an internal top level overview dashboard in Metabase to allow for effective and efficient decision making process in a single glance

Data Engineer — DraperAI / Perpetua
Jan 2019 - April 2019 — Waterloo, ON

- Reduced customer conversion time by 15% by building a tool using Python, BigQuery and Google Sheets API to entice new customers
- Wrote performant and cost efficient queries for 100TB+ customer data on BigQuery
- Improved bid accuracy by 30% by analysing the performance of core algorithm in Tableau
- Decreased customer migration costs by 10% by setting up migration from competitor platforms
- Built an internal tool to detect and alert system downtime using BigQuery (GCP) and Metabase
- Found and fixed three high priority Django API bugs affecting 10% of our marquee customers

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

- Researched in Natural Language Processing in Python and Dialogflow for a Loblaws' under Prof. Karray to allow customers to ask contextual questions while in store
- Ported over existing solution from slower excel frameworks to PostgresQL to improve net performance of product placement data warehouse by over 30%

Data Scientist/Full Stack Developer — 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
- Maintained the sole Kubernetes cluster to ensure uptime of containerised deployments
- Configured and maintained deployment pipelines on Visual Studio using TFS for Azure
- Debugged and productionised a Ruby on Rails web app with over 10,000 lines of code for LCBO's corporate customers including Loblaws and Sobeys
- Ensured simultaneous uptime of LCBO|next's 10 internal API's and 5 web apps on Azure

Computer Vision Perception Team — 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 maintenance easier
- Improved page load time by 20% by creating responsive vector images in D3.js instead of using heavier and less efficient frameworks

LANGUAGES AND TOOLS

C/C++ • Python • BigQuery • Pandas • SQL Django • Flask • Tensorflow • Keras Jupyter • Pytest • Django • Tableau ReactJS • Node.JS • Typescript • D3 Javascript • HTML • CSS • SASS • Bash JQuery • MongoDB • PostgresQL Matlab • Dialogflow • ElasticSearch Kubernetes • Google Cloud Platform Amazon Web Services (AWS) • Azure

EDUCATION

University of Waterloo
Bachelor of Applied Science in Computer Engineering, GPA: 3.98/4.0

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

President's Research Award
For excellent academic performance coupled with research outside of course requirement with Prof. Fakhri Karray, Chair Waterloo.AI

PROJECTS

LeapMetry — bit.ly/LeapMetry
Designed an ASL to speech converter using Leap Motion, computer vision and Azure Text to Speech API and won the CANSOFCOM Data Analysis Challenge at Hack The North 2019

WaterlooWorksV2.0 — bit.ly/ww_V2
Improves job search and filtering for students at UW, modernizing the user interface of the official job search platform using ReactJS, Node.js, MongoDB and ElasticSearch

SageCo — bit.ly/theSageCo
Co-founded a design agency that works with small startups and independent creators to give them a web portfolio with full responsive design while allowing creative freedom to brands

Leetcode/Euler — bit.ly/leet_euler
Written explanations and solutions to leetcode and project euler problems