

Aditya Arora

Software Engineer

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EXPERIENCE

Software Engineer
May 2020 - Apr 2020

[Wish/Contextlogic](#)
San Francisco, CA (Remote)

- Incoming Summer 2020 intern on the Product Payments team!

Software Engineer
Sep 2019 - Dec 2019

[KitchenMate](#)
Toronto, ON

- Increased customer food satisfaction by 40% by devising a data driven approach to menu design
- Built a top level overview dashboard with over 60 internal KPIs in Metabase/PostgreSQL to allow for effective decision making for our corporate customers in a single glance
- Added support for customised promotions for customers using AngularJS and CoffeeScript
- Reduced frame jitter by 80% by double buffering for rendering text on OLED display for cooker
- Designed a statistical model based on food reviews to better quantify a dish's popularity
- Setup a data ingestion and analysis pipeline to set up food safety alerts on 150+ trigger keywords
- Developed over 70 dashboards in PostgreSQL/Metabase to enhance data driven decision making

Data Engineer
Jan 2019 - April 2019

[DraperAI / Perpetua](#)
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
Sep 2018 - Dec 2018

[CPAMI, University of Waterloo](#)
Waterloo, ON

- Researched into NLP models in Python and Dialogflow for Loblaw's under Prof. Fakhri 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
Apr 2018 - Sep 2018

[LCBO|next](#)
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 LCBO's 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 Loblaw's and Sobeys

Computer Vision Perception Team
Jan 2018 - May 2018

[WATonomous](#)
Waterloo, ON

- Improved existing traffic sign detection computer vision models in Tensorflow by 15% using hyperparameter tuning and regularisation

Web Lead
Sep 2017 - Mar 2018

[Waterloop](#)
Waterloo, ON

- Used a templating engine that allowed for 30% page load boost while reducing code duplication
- Improved page load time by 20% by creating responsive vector images in D3.js instead of using heavier and less efficient formats

SKILLS

Languages

C/C++, Python, Javascript, Matlab, Java, Rust

Data Science

Jupyter, Pandas, Tensorflow, Keras, Tableau, SQL (PostgreSQL/MySQL), BigQuery, MongoDB, Elasticsearch, Dialogflow

Full Stack

React/Redux, NodeJS, AngularJS, Typescript, Django, Flask, Pytest, SASS, Mocha/Chai

DevOps

Docker/Kubernetes, Microsoft Azure, Google Cloud Platform (GCP), Amazon Web Services (S3)

EDUCATION

University of Waterloo

BASc in Computer Engineering with Option in Artificial Intelligence, CGPA: 92.2%

Term Dean's Honours List

For excellent academic performance for terms 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

Ray Tracer

[bit.ly/ja_rt](#)

Wrote a ray tracer in Rust with defocus blur, anti-aliasing and a positionable camera

SageCo

[bit.ly/theSageCo](#)

Co-founded a design agency that works with small startups to give them a brand identity along with web portfolio to show investors