

# Aditya Arora

Software Engineer

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## EXPERIENCE

### Software Engineer

May 2020 - Sep 2020

- Currently working as an intern on the Product Payments team
- Improved payment recovery rate by 10% on VISA payments declined with Do Not Honor by setting up a retry mechanism experiment on a fraction of the users

### Software Engineer

Sep 2019 - Dec 2019

- 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 - Apr 2019

- 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

- 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

- 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 Sobey's

### Web Lead

Sep 2017 - Mar 2018

- Led a team of 5 developers to revamp the branding of the student design team over 7 months
- 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

[Wish/Contextlogic](#)

San Francisco, CA (Remote)

[KitchenMate](#)

Toronto, ON

[DraperAI / Perpetua](#)

Waterloo, ON

[CPAMI, University of Waterloo](#)

Waterloo, ON

[LCBO|next](#)

Kitchener, ON

[Waterloop](#)

Waterloo, ON

## SKILLS

### Languages

Python, C/C++, 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: 92.06%

### 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](https://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](https://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](https://bit.ly/ja_rt)

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

### SageCo

[bit.ly/theSageCo](https://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