

# Adi Sharma

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## Education

BASc in **Computer Engineering**  
Graduating **April 2022**  
University of Waterloo  
**GPA: 3.9/4.0**

## Skills

### Languages

Python • Go • Java • SQL • C++ • C  
JavaScript • C#

### Tools/Frameworks

Kafka • Docker • GraphQL • Node.js  
K8S • AWS • React • Hasura  
Postgres • MySQL • Firebase

## Community Work & Awards

### Contrary Fellow • 2021

Selective community (1.3% acceptance) of entrepreneurial engineers/designers

### UW Coffee'N Code • 2020

VP Education - Lead a team of six to organize workshops including ML, Web Dev and Game Dev

### HackMIT • 2019

Won 1st place out of 600+ in one for creating an dev-facing labelling software

### Loran Scholar • 2016

One of 31 scholars selected out of 3000+ for leadership

## Projects

### LabelLearn

ML-Labelling Tool make labelling faster using MERN + Firebase

### SixFeetAway

Developed a social-networking app with room based communication using Node, Dynamo, React + Typescript on AWS

### Pipelined Processor

Processor capable of handling bypassing/race conditions in Verilog

## Interests

Board Games • Reading • B-ball

## Experience



### Pareto

Founding Engineer

Apr 2020 - Jan 2021

- Designed and developed the tech infrastructure including backend, CI/CD, API, and cloud Infrastructure to ensure an optimal experience for > **2500 monthly active users**
- Built out the payment infrastructure to handle cash flow of upwards of **\$50,000 monthly** using Stripe Atlas
- Developed a knowledge graph tool using web scraping, Captain Data, and Diffbot to automate lead-generation, saving **4 hours per user each day**
- Hired and managed a team of **four developers** to refactor the entire web application codebase, and create internal tooling



### Plastic Havas

Machine Learning Engineering Intern

May 2019 - Aug 2019

- Implemented OCR algorithms in OpenCV for autonomous driving and integrated them in an Android app from scratch
- Used StyleGAN, CNN + RNN, and Open-GPT2 to simulate a fake Instagram "influencer", achieving **150 followers**
- Automated Instagram interaction features using web scraping, Selenium, and Instagram API and created a **Django** based web app for better marketing workflow saving team on average **3 hours per week**



### IBM

Cognitive Software Developer

Sept 2018 - Dec 2018

- Implemented multiprocessing to make data ingestion pipeline **30 times faster** than previous state, reducing data processing time for **3 days to 2 hours**
- Developed various **low-latency** data ingestion services in Golang to interact with Cassandra and Consul reducing ingestion time from **2 hrs to 10 minutes everyday**
- Developed **performant** data wrangling operations and exploratory data analysis using Tensorflow, pandas, and scikit-learn on **500 GB** of unstructured sensor data to help build a pump failure prediction model



### Citco Fund Services

Software Engineering Intern

Jan 2018 - Apr 2018

- Developed a full-stack app to monitor health of APIs and services, and log the results, alerting service owner for ones that can't be triaged using Java, Hibernate, and SQLServer
- Logged the results and alerted owners for faulty services, reducing average service downtime by **3 days**
- Designed, developed and shipped a RESTful backend API for data transformation used by **seven** internal clients using C# and Entity framework



### Shaw Communications

Software Engineering Intern

Jan 2017 - Apr 2017

- Decreased double AA accessibility issues on the entire platform by **48%** across the entirety of Shaw's main online platform and resultings in savings of **\$15,000**
- Visualized and analyzed customer base in Calgary using **Tableau** and recommended strategies for customer acquisition and growth