Adi Sharma

CONTACT

\vee

a273shar@uwaterloo.ca

asharma.me

in adityas129

adityas129

SKILLS

Languages: Python, C, C++, Go, Java, Javascript, VHDL, RISC-V ML/Data/Infra: Pytorch, Tensorflow, Spark, AWS, Cassandra, Kubernetes, GCP, fastai, Pandas

Web/Mobile: React, GraphQL, DynamoDB, HTML/CSS, NodeJS, Android Studio, Next.js

EDUCATION

University of Waterloo

2016 to Current

BASc Computer Engineering Involvements: (VP Education) UW Coffee 'N Code, UW Data Science Club, UW Badminton Club Courses: Systems Programming & Concurrency, Data Structures & Algorithms

AWARDS

HackMIT Winner

2019

Won 1st Place out of 250+ team Additionally, won our track (category) award

Loran Scholar

2016

One of 31 scholars selected out of over 4300+ students across Canada on the merits of character, leadership and service

Waterloo Engineering Competition

2017

Won 1st place in Consulting track

EngHack 2019 Winner 2019

Won Best Domain Hack out of 40+ teams

EMPLOYMENT

Tiny Factories

Indie Maker

Winter 2020

- · Shipped numerous projects as part of Tiny Factories(tinyfactories.space); a selected few highlighted below
- moshimoshi.glitch.me: An anonymous chat platform on which there is a new conversation topic every 24 hours with 200 active users three days after launch (Tachyon, NodelS, Express, socket.io)
- CSV-to-image: A utility tool that takes in CSV of images and stylizes it based on user input and generates images of different formats/sizes (NodeJS, Express, Stripe integration, Firebase)

Prufer

Co-founder/CTO

Winter 2020

- · Cofounded and lead the development of prufer.io, a SaaS tool aimed at reinventing the way we presented.
- Designed the architecture to ship features and create an MVP (React, GraphQL, Apollo, PostgreSQL)
- Managed a team of four full-stack developers to continuously

Plastic Havas

Machine Learning Intern

Spring 2019

- Implemented YOLO (Object Detection)/OCR algorithms and integrated them in an Android app created from scratch to interface with the Loomo Segway (Segway Robotics) to simulate autonomous driving for coffee-delivery
- Used StyleGAN for fake persona generation, CNN + RNN for image caption-generation, and Open-GPT2 for comment generation to simulate a fake Instagram "influencer", getting to a max of 100 followers
- Automated most Instagram interaction features using web scraping, Selenium, and Instagram API and created a
 Django based Web-App for the marketing team to use the above tool for their marketing workflow

IBM

Cognitive Software Developer

Fall 2018

- Performed numerous data wrangling operations and exploratory data analysis using Tensorflow, pandas, and scikitlearn on 500 GB of unstructured sensor data from various data sources to help build a pump failure prediction model
- Implemented multithreading and multiprocessing to make data ingestion pipeline 30 times faster and more robust than previous state
- Developed various low latency data ingestion services in **Golang** to interact with **Cassandra** and **Consul**

Citco Fund Services

Software Engineering Intern

Winter 2018

- Designed and developed an end-to-end web application that monitors health of various APIs, and services and records
 the results, alerting the service owner in case of malfunction using JavaEE, Spring MVC, Hibernate, SQLServer, Maven
 and Tomcat reducing average service downtime by 3 days
- Designed, developed and shipped a RESTful backend API from scratch based on business requirements using object
 oriented design to be consumed by various third-party clients using C# and Entity framework

Shaw Communications

Software Engineering Intern

Winter 2017

- Used **Tableau** to visualize and analyze customer base in Calgary and recommend strategies for customer acquisition and growth
- Decreased double AA accessibility issues on the entire platform by 48% across the entirety of Shaw's main online
 platform and hence saving about \$15,000 in fines

PROJECTS

Six Feet Away (Cofounder - App Live)

Current

- Developed a social networking site that lets you see what user's friends are up to and their activities for the day and allows them to join each other to foster more spontaneous communication as part of Contrary VC's Homework Program with a team of six
- Used NodeJS, DynamoDB with Express Server on the backend and React with Typescript on the frontend with socket.io
- Set up the core infrastructure on AWS using EC2, Load Balancer and Redis

LabelLearn (Hackathon Winner)

- Ideated, and architected a data labeling tool that enables a labeler to be consistent with both their fellow labelers and their past self while seeing the live class distribution of the dataset
- Created a UI allowing a user to annotate data points while seeing the distribution of labels the particular data point has been previously assigned by another annotator using **MEAN** stack and Canvas.js
- Set up the Firebase infrastructure to interact with the UI to provide recommendations on incoming labels to help users with their decisions
- Won 1st place at HackMIT out of about 210 projects while also winning in our category of Dev-Tools challenge