Adi Sharma

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Education

BASc in **Computer Engineering**
April 2022 with Distinction
University of Waterloo

Skills

Languages

Python • Java • Ruby on Rails
Scala • SQL • C • C++ • JavaScript
C# • Go

Tools/Frameworks

Kafka • React • GraphQL • Node.js
Hasura • Hadoop • K8S • AWS
Spark • MySQL • Postgres • Thrift

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+ 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

Startups • Reading • Sports

Experience

Affirm
Software Engineer
Jun 2022 - Present

- Working as a backend engineer on Disbursements

Tophatter
Software Engineering Intern
Sept 2021 - Jan 2022

- Added % off discount cards to promotions, increasing **LTV by 20%**
- **Reimplemented** the nav bar of the entire mobile app to modernize layout and UI, increasing retention by **35%**
- Added text-to-speech and additional info sharing functionality in the video-feed, spiking **engagement by 35%**

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**

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**
- 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** ingestion services in Golang to interact with Cassandra and Consul reducing ingestion time from **2 hrs to 10 minutes daily**
- 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, alerting service owner outages to service owners, 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**