

Anmol Mago

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<https://anmolmago.com/>

Software Engineering Experience

Nvidia • Autonomous Vehicles Perception Team

Jan 2019 – Apr 2019

Python • C++ • C • CUDA • TensorFlow • Keras • Computer Vision • Data Infrastructure • Machine Learning • RTOS

- Built infrastructure pipeline for data acquisition, augmentation and analysis with Python
- Investigated and implemented ML models to classify images of road markings using TensorFlow
- Integrated models into vehicle operating system for real-time classification with C, C++ and CUDA

Microsoft • Information AI Team

May 2018 – Aug 2018

C# • Python • CNTK • Machine Learning • Research paper analysis • TensorFlow • Keras

- Used co-training to build a semi-supervised classifier which would identify matching unformatted address strings, with possibly missing, incorrect or different information
- Built and integrated a ML classifier to identify if two strings represent the same customer's name
- Researched, presented and implemented various scientific papers for internal investigations

Apple • Core Siri Team

Sep 2017 – Dec 2017

Python • Java • Scala • Spark • Data Infrastructure • Machine Learning • Hadoop

- Extended underlying Apache Spark and Hadoop infrastructure for Siri and iTunes using Java
- Performed statistical and machine learning experiments to explain failures in Siri infrastructure
- Built web tool to display relationships, use cases and automatic analysis of internal data streams

Shopify • Risk Team

Jan 2017 – Apr 2017

Python • Ruby • C • Deep Learning • Computer Vision • Natural Language Processing • Spark • Kafka

- Built an end-to-end machine learning pipeline to identify banned products using image and text data in real-time; achieved 99.6% accuracy for Shopify Payments and Apple Pay
- Applied gradient boosting to predict future revenue of merchants; the model has been trusted in the distribution of over \$250 million in cash advances to date

Shopify • Infrastructure Team

May 2016 – Aug 2016

Python • Go • Data Infrastructure • Spark • Hadoop • Cassandra

- Led team to fix mission-critical bug and build real-time data aggregates; sped up queries by 500%
- Created Go service to fulfill unlimited related database queries in parallel

Projects and Extracurriculars

Self-Driving Car Nanodegree

<https://amago.ca/1>

Deep Learning • Computer Vision • Localization • Control

Created by Uber, Mercedes-Benz, Udacity and more

- Used behavioral cloning to autonomously steer simulated vehicles with only image data
- Implemented object tracking algorithms for LIDAR and radar data

Artificial Intelligence Nanodegree

<https://amago.ca/2>

Search • Optimization • Probabilistic Models

Created by Amazon, IBM, Udacity and more

- Implemented search to solve complex planning problems and win adversarial games
- Created sign language interpreter using a hidden Markov model (HMM)

Education

University of Waterloo • Bachelor of Software Engineering

2015 – 2020