

Anmol Mago

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<https://anmolmago.com/>

Software Engineering Experience

Nvidia • Autonomous Vehicles Perception Team

Jan 2019 – Apr 2019

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

- Built pipeline to parse, extract, and analyze data to create dataset for road marking images
- Trained a CNN model using TensorFlow to classify road marking images using Python
- Integrated model into autonomous car software for on-road classification using C++ and CUDA

Microsoft • Information AI Team

May 2018 – Aug 2018

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

- Implemented a ML model to merge various data for address-based conflation which was co-trained on a custom-built dataset along with a heuristic model
- Built and integrated a convolutional neural network which used customer names to conflate data

Apple • Siri Team

Sept 2017 – Dec 2017

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

- Extended underlying Spark and Hadoop infrastructure for Siri and iTunes
- Performed statistical and machine learning experiments to explain failures in Siri infrastructure
- Built web tool for all Siri data consumers to showcase data analysis, entity relationships and analytical use cases for 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 \$170 million in cash advances to date

Shopify • Infrastructure Team

May 2016 – Aug 2016

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

- Led team to build data models and real-time data aggregates; sped up queries by 500%
- Created Go service to fulfill unlimited related database queries in one iteration

Projects and Extracurriculars

Links lead to the GitHub repository of the project. For more projects head to: <https://amago.ca>

Self-Driving Car Nanodegree

<https://amago.ca/1>

Deep Learning • Computer Vision • Localization • Control

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

By Amazon, IBM, Udacity and more

- Implemented search to solve complex planning problems and win adversarial games
- Created sign language interpreter using Hidden Markov Models

Education

University of Waterloo • Bachelor of Software Engineering

2015 – Present