# Laura Dang

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### **SKILLS**

Languages: Python • C++ • Bash • SQL • HTML • CSS

Frameworks: Flask • PyTorch • TensorFlow Keras • Kubeflow • MLflow

Technologies: Docker • Kubernetes • Helm • MySQL • MongoDB • Dash • Linux • Jenkins • Grafana • Jira • Git

Cloud Services: Azure (AKS, AAD, Blob Storage, ML) • AWS (EKS, EC2, ES, S3) • IBM Cloud (IKS)

#### WORK EXPERIENCE

**Nuro** – Software Engineer (Site Reliability Engineering)

Mountain View, CA | May. 2022 - Aug. 2022

Expanding and supporting production vehicle data center/cloud infrastructure, storage, and networking systems

**NVIDIA** – Machine Learning Software Platform Architect

Santa Clara, CA | Jan. 2022 – Apr. 2022

Developing NVIDIA's 1<sup>st</sup> generation Machine Learning as a Service (MLaaS) Platform

IBM - Machine Learning Infrastructure Engineer

Calgary, AB | May 2021 - Aug. 2021

- Built scalable end-to-end K8s system to automate ML workflows & optimize ML investments for enterprise clients
- Used scikit-learn, Kubeflow, & MLflow to create pipeline with parallelized preprocessing & model training stages
- Developed CI/CD system to automate model deployment on ACI & AKS using Azure ML, Seldon Core, GoCD, & Jinja
- Created ML monitoring system to track feedback, outliers, & request rate/latency using Prometheus & Grafana

Molex – Software Developer (DevOps & Machine Learning)

Waterloo, ON | Sept. 2020 – Dec. 2020

- Revamped Python pipelines to stream team stats to InfluxDB, MySQL, & Grafana, improving test coverage by 27%
- Integrated DeepSORT tracking algorithm into Tensorflow 3D object detector to safeguard industrial danger zones
- Led creation of centralized Jenkins logging system by deploying AWS Elasticsearch/Kibana & Splunk with VPCs

**Soapbox Innovations** – Machine Learning Engineer

Toronto, ON | Jan. 2020 - Apr. 2020

- Developed REST API using Flask, MySQL, Docker, & Gunicorn to provide ML web services for 100 000+ users
- Built cron-scheduled ETL pipeline to dynamically retrain fast.ai models on unique client data & upload to AWS S3

**GrantMatch** – Junior Software Developer

Oakville, ON | May 2019 - July 2020

## **PROJECTS**

Automatic Black & White Image Colorizer &

Apr. 2020

Built & trained PyTorch encoder-decoder convolutional neural network to colorize grayscale images

BehaviourStack – RyersonHacks Winner (Track Challenge) 🔗

Sept. 2019

Created tool that collects demographics of advertisement's audience using ResNet model & OpenCV in real-time

## **EDUCATION**

**University of Waterloo** 

Sept. 2018 - Apr. 2023

Candidate for Bachelor of Mathematics, Double Major in Statistics & Computational Math, Minor in Computing

Honours: Dean's Honors List (Spring 2020)