

Laura Dang

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SKILLS

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

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

Frameworks: Flask, PyTorch, Keras, Kubeflow, MLflow

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 & supporting production vehicle data center infrastructure, storage, and networking systems

NVIDIA – [Machine Learning Software Platform Architect](#) Santa Clara, CA | Jan. 2022 – Apr. 2022

- Developing NVIDIA's 1st 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

- Implemented full-stack web app features (Django, Laravel, Vue.js) to assist securing government funding for clients

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)