

ALEC MACLEAN GUNNY

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EXPERIENCE

Senior Solution Architect

NVIDIA

📅 April 2019 – Present

- Developed APIs around TensorFlow to accelerate inference-time execution of deep recommendation models by a factor of 20-40x on GPUs
- Drove recommendation project from concept to implementation, managing resources across product, engineering, and sales organizations
- Built collateral for publication, including demo walk-through and blog post

Solution Architect

NVIDIA

📅 September 2017 – April 2019

- Collaborated with data science and infrastructure teams from large consumer internet companies to build scalable, GPU-accelerated deep learning systems for both training and inference
- Synthesized solutions to common industry problems into presentations, demos, and conference talks aimed at a variety of audiences

Data Scientist

Children's Hospital Los Angeles

📅 April 2016 – September 2017

- Modelled asynchronously and irregularly sampled EMR data from patient stays in the pediatric ICU
- Researched parameterized structured inference models as a means to forecast patient vitals under hypothetical courses of treatment
- Built visualization tools to better interpret models and communicate results to physicians

Scientist

Arete Associates

📅 August 2014 – April 2016

- Leveraged traditional signal and image processing techniques as well as machine and deep learning to solve problems ranging from vehicle classification and cancer cell detection to object tracking and system performance modelling

CONFERENCE TALKS

A Trip Through The NGC Tensorflow Container

GPU Technology Conference

📅 March 2019

- Presented an **end-to-end workflow** for training a deep learning model on audio data then serving it for inference at reduced precision

Deploying Deep Neural Networks as a Service Using TensorRT and NVIDIA-Docker

GPU Technology Conference

📅 March 2018

- Demo on converting trained recurrent and convolutional models from multiple deep learning libraries into accelerated inference runtime engines and exposing them via an inference service

Quick and Easy DL Workflow Proof of Concept

GPU Technology Conference

📅 March 2018

- **Demo workflow** for building embedded applications using deep learning models trained in the cloud

UNDERGRADUATE COURSEWORK

Quantum Mechanics

Electrodynamics

Real & Complex Analysis

Dynamics

Fluid Dynamics

Materials Science

Circuits

MATLAB

Optics

SKILLS

Python

Docker

Bash

C++

CUDA



• Python Libraries

Tensorflow

Pytorch

Scikit-Learn

Pandas

Bokeh

OpenCV

Flask

TensorRT

Horovod

• Cloud Computing

AWS

Google Cloud

• Scheduling/Orchestration

SLURM

Kubernetes

EDUCATION

B.Sc. in Engineering Physics

University of California Berkeley

📅 August 2010 – May 2014

Graduate with honors

AWARDS AND HONORS

• Arete Spot Award Recipient

- Top 10% finisher in Kaggle Diabetic Retinopathy Detection Competition