Daniel Humphries

EDUCATION

Bachelor of Business Administration | *Wilfrid Laurier University*   **2018**

Bachelor of Computer Science | *University of Waterloo*   **2018**

Master of Computer Science | *University of Texas at Austin*   **ongoing**
NLP, Deep Learning, Computer Vision, Machine Learning

EXPERIENCE

Google - *Senior Software Engineer*
Scaling Google Cloud's TPU offering to meet demand for cutting edge AI training and inference.

Kirkland, WA
Oct 2024-present

Dropbox - *Senior Infrastructure Software Developer - Filesystem*
Building Dropbox's next generation filesystem service, which sits at the center of products empowering Dropbox's 700 million users.
Launched new change detection capabilities in the filesystem which powers Dropbox-wide asynchronous event messaging.

Wellesley, ON
Aug 2022-Oct 2024

Google - *Software Developer (Technical Lead)*
Technical lead for a team which modernized Google Cloud Retail's Recommendation machine learning infrastructure to configure, train, and serve predictions at scale.
Launched a deidentification API method for automatically anonymizing DICOM records - part of Google's Cloud Healthcare API. Added greater user customization and improved throughput 10x.

Waterloo, ON
Sept 2018-Aug 2022

eSentire - *Software Developer - Network Team*
Implemented capabilities in a deep packet inspection engine, providing new data to security analysts. Contributed to Suricata, an open source threat detection project.

Cambridge, ON
Sept-Dec 2017

McAfee - *Software Development Engineering - Websafe Team*
Developed and tested McAfee WebAdvisor, a product deployed to millions.
Modified and extended the team's Next Generation Installer project to add new features, enhance security, and increase its robustness.

Waterloo, ON
Jan-April 2017

Christie Digital Systems - *Software Developer - Research & Innovation Team*
Implemented serialization and deserialization of 3D point cloud data structures used in experimental automatic projection mapping software to improve logging, troubleshooting, and testing.

Kitchener, ON
Jan-April 2016

Christie Digital Systems - *Application Developer - Research & Innovation Team*
Experimented with image filtration and blob finding for automatic projector calibration.
Developed a mechanism to control a UAV and other flying vehicles in a VR environment using gesture-based control.

Kitchener, ON
Jan-April 2015

SKILLS

Languages	Go, Python, C++, Lua, C, Perl, Ragel, Javascript, Java, Typescript, Rust, Nim, XML, HTML/CSS
Tools & Technology	Pytorch, Jax, Deep Learning, SQL (MySQL, PostgreSQL), GCP, AWS, TFX, Distributed Systems, Dataflow, Spanner, DynamoDB, Protobuf, gRPC, Git, Linux, Tailwind, NextJS

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