

Christopher Leung

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3 Years in ML Engineering, 16 Months of Internship Experience, Graduate Student & Researcher.

Skills

LANGUAGES Python, Java, C++, Scala, C, R, Shell Script, SQL, VBA

TECHNOLOGIES PyTorch, Tensorflow, SparkSQL, Airflow, scikit-learn, Storm, FlumeJava

Experience

META AI

Software Engineer, Machine Learning

Canada Remote

July 2022 - Present

- Graph algorithm research for Modern Recommender Systems on the AI Applied Research Relevance team.

PINTEREST

Machine Learning Engineer

Toronto, ON

May 2021 - July 2022

- Created a “tier-1” ranking model from 0->1 which led to greater than double-digit conversion gains for all Pinterest surfaces (Homefeed, Search, Related Pins, Related Products). Was the largest conversion gain for Pinterest in 2021.
- Trained and tuned a multi-headed conversion model with approximately one billion conversion samples to model the probability of conversion after clickthrough for shopping pins. Created with Tensorflow and migrated to PyTorch.
- Worked with PinLabs to integrate SOTA features (BERT embeddings, etc). Included over 70 different features.

OKTA

Software Engineer (Machine Learning)

Toronto, ON

June 2019 - April 2021

- Designed and implemented a machine learning pipeline to detect cyberattacks on client organizations.

GOOGLE

Software Engineer Intern

Mountain View, CA

Sept. 2018 - Dec. 2018

- Improved and optimized existing machine learning model to better detect malicious advertisers in Google Search.

OKTA

Software Engineer Intern

Toronto, ON

May 2018 - Aug. 2018

IBM

Software Developer Co-op

Markham, ON

Sept. 2016 - Apr. 2017

Education

GEORGIA INSTITUTE OF TECHNOLOGY

Master of Science in Computer Science

In Progress

- Specialization in Machine Learning - Cumulative GPA: 4.0/4.0
- Theory of Mind Research at the Design and Intelligence Lab supervised by Dr. Ashok Goel.

UNIVERSITY OF WATERLOO

(Hons) Bachelor of Computer Science

June 2019

STANFORD UNIVERSITY

Professional Certificate in Artificial Intelligence

In Progress

- Graduate Courses Completed: NLP, NLU

Research Projects

LISTENER-REASONING SPEAKER

Short Paper

Title: Pragmatic Learning via Listener-Reasoned Utterance Augmentation.

- Invented a meta-learning technique that solves Stanford's Color Reference task with 94.5% accuracy, beating SOTA by 8%.

COST-BALANCING CLUSTERING TREE

Long Paper

Title: Test-Cost Sensitive Methods for Identifying Nearby Points

arxiv: 2010.03962

- Solved a new problem in budget-constrained data repair with a proposed Markov Decision Process framework.
- Proposed deep reinforcement learning algorithm which outperforms random policies in the context of cost-based data repair.