

Tom LaMantia

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[GitHub Profile](#)

Profile

I'm a Toronto-based machine learning developer with experience bringing AI/ML applications to production on the AWS and GCP clouds.

Skills & Knowledge

- My Python proficiency is razor sharp. I'm comfortable analyzing data with Matplotlib, Pandas, and NumPy.
- I hold the AWS Machine Learning Specialist certification and I practice machine learning with the goal of deploying to production.
- I have in-depth experience serving models on AWS (SageMaker) and GCP (App Engine and AI Platform).
- Most of my code lives in containers and I'm constantly asking, "how can people consume and use my pipelines"?
- I also have production-level experience in applied natural language processing using toolkits such as Gensim, NLTK, and Spacy.
- Public speaking and communicating about data are my strengths. I developed my presentation skills through communications courses in graduate school and from giving bi-weekly demos in my previous role.

Employment History

Machine Learning Developer, CBC/Radio-Canada (April 2021– Present)

- Current team member on the Customization and Machine Learning (CaML) team at CBC Digital Products.

Server Developer – Machine Learning, CaseWare International Inc. (May 2016 – March 2021)

- Trained models for extracting key information from leases, such as start and end dates, rent schedule, parties, and more. Deployed these models as microservices, with unit tests, using AWS SageMaker.
- Developed a custom named entity recognition model using Flair that doubled the successful extraction rate for lease parties compared to a baseline Spacy model.
- Independently retrieved, cleaned, and structured a large dataset of XML financial statements from the U.S. Securities and Exchange Commission. I Dockerized this ETL pipeline and deployed it to in-house servers.
- Trained and evaluated models for predicting future amendments to financial statements. Achieved a 10% reduction in model error and training time by implementing multiple feature selection algorithms in Python.

Natural Sciences and Engineering Research Council of Canada (NSERC) (April 2015 – Aug 2015)

- Secured funding through an undergraduate student research award (USRA) to work as part of a team conducting novel graph theory research. Our results were published in Discrete Applied Mathematics (2016).

Academic Background

Master of Science, Applied Computing (Sept 2015 – Jan 2017)
University of Toronto, Toronto, Ontario

Honours Bachelor of Arts (with high distinction), Computer Science (Sept 2011 – April 2015)
Wilfrid Laurier University, Waterloo, Ontario

Honours and Awards

MScAC Program Award - 2021 Alumni of the Year (Nov 2021)

- The Alumni of the Year Award is presented to a member/members of the MScAC alumni network that have made significant contributions to the development of the program.

MITACS Accelerate Fellowship (May 2016 – Dec 2016)

Addictive Mobility Scholarship in Applied Computing (Dec 2015)