

Tom LaMantia

tom.lamantia@mail.utoronto.ca

519-494-5543

[GitHub Profile](#)

Profile

I am a data scientist with extensive experience applying natural language processing techniques to notes in financial statements and in legal contracts. I augment my analytic background with the ability to communicate technical ideas with diverse audiences.

Skills & Knowledge

- My Python proficiency is razor sharp. I'm comfortable analyzing data with Scikit-Learn, Spacy, Pandas, NumPy.
- I hold the AWS Machine Learning Specialist certification and I practice data science with the goal of deploying to production. I have in-depth experience with SageMaker and GitHub Actions to deploy models to AWS.
- Most of my code lives in containers and I'm constantly asking, "how can people consume and use my models"?
- 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 current role.

Academic Background

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

- Courses: Computability and Logic, Theory of Algorithm Design and Analysis, Systems Thinking for Global Problems, Topics in Storage Systems, Communication for Computer Scientists, Technical Entrepreneurship.

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

Employment History

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

- Trained models for extracting key information from leases, such as start and end dates, rent schedule, parties, and more. Deployed these models, 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 coloring research. Our results were published in *Discrete Applied Mathematics* (2016).

Computer Science Instructional Assistant, Wilfrid Laurier University (Jan 2015 – April 2015)

- Independently graded weekly programming assignments for an intermediate level computer science course.

Honours and Awards

MITACS Accelerate Fellowship (May 2016 – Dec 2016)

- Secured \$15,000 of applied research grant funding in collaboration with MITACS Canada, CaseWare International, and the University of Toronto.

Addictive Mobility Scholarship in Applied Computing (Dec 2015)

- This scholarship is awarded to students based on academic merit and the ability to express an opinion regarding data-driven computation on society.