ADAM LIEBERMAN

Machine Learning | Data Science

@ adam.justin.lieberman@gmail.com   📞 678-689-5958   📍 Atlanta, GA
🔗 ad1m.github.io   ⊙ github.com/ad1m

EXPERIENCE

Head of AI/ML for Innovation

Finastra

📅 September 2018 – Current   📍 Atlanta, GA

- Lead Machine Learning efforts for Finastra's Artificial Intelligence Innovation Laboratories in the United States, Budapest, London, Paris, and Israel focusing on Machine Learning and Deep Learning research and development pertaining to financial markets
- Work with our C level executives to strategize the use of artificial intelligence, build and maintain AI infrastructure, and develop partnerships with leading companies in the space

Head of Innovation

NCR

📅 August 2017 – September 2018   📍 Atlanta, GA

- Head of Machine Learning at NCR's Innovation Lab focusing on deep learning, machine learning, data science, and computer vision research and development
- Projects: Amazon Go style store, Wells Fargo AI Branch Manager, Rivermark Augmented Reality Branch support, Real-time mood recognition, Joint Density Estimation, synthetic transaction generation for database population, self check out theft prevention
- Talks: Introduction to Machine Learning, Introduction to Deep Learning, Mathematics of Neural Style Transfer, Generative Adversarial Networks, Autoencoders, Variational Autoencoders

Co-Founder

Cappio

📅 August 2014 – May 2016   📍 Atlanta, GA

- A financial web application that helps average investors make smart investments in equities.
- Acquired by Simply Wall St.

Quantitative Developer

Lucena Research

📅 January 2016 – June 2016   📍 Atlanta, GA

- Developed Lucena's premier blackdog algorithmic trading strategy (+51.86% as of August. 6, 2018)
- Researched various statistical machine learning models, optimization of various objective functions, and varying re-balancing periods for construction of an optimal portfolio with constrained ETFs

Quantitative Developer

Janus Capital Group

📅 May 2015 – August 2015   📍 Denver, CO

- On Nobel Prize Winner Myron Scholes' asset allocation team
- Focused on machine learning and natural language processing for trade signal generation

EDUCATION

M.S. in Computer Science

Georgia Institute of Technology

📅 August 2016 – June 2017

Specialization: Machine Learning
GPA: 4.00

B.S. in Applied Mathematics

Georgia Institute of Technology

📅 August 2012 – May 2016

GPA: 3.68

STRENGTHS

Skills

| Deep Learning | Machine Learning |
| Data Science | Equities | Public Speaking |

Programming

| Python | Matlab | Javascript | C# | Java |
| HTML | CSS | JQuery |

Libraries

Keras	Sklearn	OpenCV	NLTK
Numpy	Pandas	Flask	pymongo
Matplotlib	BeautifulSoup	Requests

WRITTEN WORKS

- Deep Learning on Clinical Notes
- Theory and Application of Generative Adversarial Networks
- Activation Functions in Deep Learning
- Regularization in Deep Learning Models
- Bias-Variance Trade-off
- Introduction to Machine Learning
- Clustering short-text documents
- Dynamic Time Warping
- Building a quantitative trading strategy

PROJECTS

- Deep Convolutional Generative Adversarial Networks for Synthetic Facial Generation
- Crafte: A Craft Beer Recommendation Web Application
- Quantum Finance: Machine learning and interactive visualization for portfolios
- PyQuant: A class for quantitative portfolio metrics