

ADAM LIEBERMAN

Machine Learning Engineer | Data Scientist

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EXPERIENCE

Machine Learning Engineer

NCR

August 2017 – Current Atlanta, GA

- Lead machine learning engineer in the innovation lab focusing on deep learning, machine learning, and computer vision research and development
- Ensembled classical computer vision and deep learning to develop an Amazon Go replica store
- Built a variational autoencoder for synthetic generation of transactional data used to populate transactional databases
- Developed an attention mechanism wrapper for any deep learning model used to gain insight into why deep learning models make their classification or regression decisions
- Implemented a deep learning based real-time mood detection system that ties customer emotion to promotion of goods and an upsell item recommendation engine
- Sponsored HackGT, the #1 hackathon of 2017, and gave two talks on variational autoencoders and generative adversarial networks to 200+ audience members
- Gave introductory machine learning and deep learning talks to NCR engineering managers and their teams in the US, Russia, and India

Co-Founder

Cappio

August 2014 – May 2016 Atlanta, GA

- A financial web application that helps average investors make smart investments in equities.
- Featured on the front page of ProductHunt and Hackernews
- Acquired by Simply Wall St.

Quantitative Developer Intern

Lucena Research

January 2016 – June 2016 Atlanta, GA

- Developed the blackdog trading strategy (+22% as of December 17, 2017)
- Researched stepwise regression, optimization of various objective functions, and optimal rebalancing periods for construction of an optimal portfolio with constrained ETFs

Quantitative & Equity Research Developer Intern

Janus Capital Group

May 2015 – August 2015 Denver, CO

- Worked with Myron Scholes and the Asset Allocation team on a project centered around duration
- Designed python functions to clean and reformat credit default swaps data from multiple data providers and upload it to a database
- Created a python application to run a historical weather simulation to determine if weather is a plausible excuse for retail companies missing earnings in their quarterly reports
- Developed a glassdoor scraper and used sentiment analysis on the reviews for insights into the company
- Designed and built the user interface for the ResearchLive twitter scraper
- Created a revenue build for Vanda Pharmaceuticals (VNDA)
- Held meetings with the CEO and CFO from Sealed Air Corp (SEE) and DXPE Enterprises (DXPE)

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