

# Alex Gaudio

ML and Deep Learning Researcher

adgaudio@gmail.com

(860) 608 - 8717

alexgaudio.com

162 West 122<sup>nd</sup> St. #2, NY, NY 10027

## Work Experience:

### **Alluvium: Senior Data Scientist, 1<sup>st</sup> employee**

**Dec 2015 –**

- First employee after founders, building a business that deploys intelligent autonomous agents close to sources of streaming data. Focusing on machine learning, stream processing, and IoT.

### **Sailthru: Senior Data Scientist and Engineer**

**Aug 2012 – Nov 2015**

- Founding and leading the data science team. I hired my boss, VP of Data Science Jeremy Stanley. Grew team from 1 to 4 full time employees. Promotion to “Senior” in 2014.
- Invented streaming machine learning algorithm to minimize error in control loops and deployed it into large distributed system. Created task dependency scheduler for scalable, complex distributed pipelines. Developed predictive modeling and timeseries analyses to predict user behavior.
- Created and launched Sightlines™ to predict user behavior. Huge success in A/B tests: 195% increase in client revenue, 41% increase in purchases, 69% improvement in opt-out rate. For each client, per day, we compute 3 million models (GBM) and ingest roughly 2.5 billion data points.
- Architected data science platform with Mesos, Docker, AWS. Auto-scales to 6400 CPUs and 48,800mb RAM. Using mostly R and Python scientific packages and Apache Spark.

### **Adaptly: Developer**

**Dec 2011 – July 2012**

- Specializing in data science and big data engineering to enhance Facebook targeting.
- Built tooling and machine learning features to optimize Facebook targeting: Implemented Poisson gradient descent to approximate numerical values for user age groups. Used Dijkstra's algorithm on DBpedia and Freebase to find related keywords. Built real-time hourly stats collection app with ETL. Developed service-oriented platform and web-apps.

### **Flat World Knowledge: Software Engineer**

**Feb 2011 – Dec 2011**

- Automating textbook publishing to produce low-cost, customizable textbooks for classrooms and specializing in Python backend development, Data Analytics, ETL, DBA, Reporting. Built production reporting system that merged data from 5 disparate DBs.

## Achievements:

- Developing a Deep Neural Network with CNNs, Node2Vec, FFTs and Tensorflow – Sept 2016
- Speaker, Mesoscon. Challenges in Optimizing Job Scheduling on Mesos. – Aug 2015
- Patent Application. Auto-Tagging System and Method In Support Of High-Engagement Communications. – 2015
- Designed a 3D Printer (DLP Stereolithography) and a CO2 Laser – 2014-2016
- Winner of Sailthru Robotics Hackathon Competition – 2013-2014
- Kaggle Data Science Competition. 5th place in NY and 28th globally (with 2 friends) – May 2012
- Stanford Machine Learning Course. Perfect score in class. – Dec 2011
- Speaker, PyGotham NYC. Tmux + IPython == Awesome. TA'd Django class. – Sept 2011

## Education:

### **Bard College, Annandale-on-Hudson, NY**

**Aug 2006 – May 2010**

B.A. and Recipient of the Larry McLeod Award