

# Alex Gaudio

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## Work Experience:

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

**Dec 2015 – May 2016**

- First employee after founders, building a business that deploys intelligent autonomous agents close to sources of streaming data. Focus on machine learning, stream processing, functional programming, Docker and Industrial 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.
- Created and launched Sightlines™ to predict user purchase, value, engagement and channel 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.
- Created the data science platform to support our products in production and do research. Auto-scales to 6400 CPUs and 48,800mb RAM on AWS Spot instances. Dockerized on Mesos.
- Open sourced several projects, including some of my distributed systems work: Stolos, Relay and Relay.Mesos. Patent application for my Auto Tagging system to mine unstructured web.

### **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.
- Specializing in Python backend development, Data Analytics, ETL, DBA, Reporting. Built production reporting system that merged data from 5 disparate DBs.

## Achievements:

- Speaker, Mesoscon. Challenges in Optimizing Job Scheduling on Mesos. – Aug 2015
- Patent Application. Auto-Tagging System and Method In Support Of High-Engagement Communications. – Jun 2015
- 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. Talk: Tmux + IPython == Awesome. TA'd Django class. – Sept 2011
- Volunteer, Hunchworks, UN Global Pulse. Hypothesis generation and social networking platform to identify emergent crises and trends. Jul-Dec 2011.

## Education:

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

**2006 - 2010**

B.A. May 2010, Music, Pre-med. GPA: 4.0 Senior year, 3.75 Junior year, 3.61 Avg  
Senior Thesis, *Cultivating Expression: Connecting With Each Other Through Jazz*  
2010 Recipient of the Larry McLeod Award in Jazz