

MATTHEW RATHBONE

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<http://matthewrathbone.com>

OVERVIEW

I am a seasoned software engineer with experience in offline data processing, and back-end web technologies. I believe that constant measurement, instrumentation, automation, and experimentation are fundamental to building a successful product that can easily evolve to meet the needs of its users.

PROFESSIONAL EXPERIENCE

Foursquare, New York, NY

Nov 2010 - Present

Software Engineer - Data Infrastructure

- Built and supported production batch data processing infrastructure using Hadoop.
- Created ETL pipelines in Map/Reduce to ingest 1TB of daily data and feed production systems.
- Worked closely with other engineers to design and produce a suite of software tools for easy development (and testing) of data processing and machine learning algorithms.
- Designed and built internal tools to allow the whole company to access and query large-scale datasets.
- Led an initiative to integrate a standardized event-logging system across all 5 major clients.

Drop.io, Brooklyn, NY

May 2010 - Nov 2010

Software Engineer

- Built a high throughput real-time event-data collection and reporting system.
- Developed a distributed user billing system to generate accurate charges for api and disk usage.
- The company was acquired by Facebook in November 2010.

New York University, New York, NY

Jan 2010 - May 2010

Grader - Graduate Operating Systems

- Graded programming assignments in linking, memory paging, resource allocation, etc.

Threadneedle Asset Management, London, UK

Aug 2007 - Jun 2009

Software Engineer - Front Office

- Lead development of a portfolio management system used to manage fund assets.
- Enhanced legacy software to integrate with strategic in-house platforms and utilize external APIs.
- Worked with a team to create common order processing APIs. The API's were used across multiple projects.

UBS Investment Bank, London, UK

Oct 2006 - Aug 2007

Business Change Specialist

- Provided structured analysis of internal statistics and processes in co-ordination with global management teams.
- Played a lead role in the development and deployment of management information systems.

Analyst

- Led the data collection and filing of 144a class action lawsuit claims.
- Automated departmental management information reporting, increasing accuracy whilst improving accuracy.

EDUCATION

Courant Institute of New York University, New York, NY**2009 - 2011***MS in Computer Science*

- Awarded the 2012 Matthew Smosna Prize for academic achievement.
- Highlighted Courses: Parallel Computing, NLP, Machine Learning.
- My machine learning project was featured in New Scientist Magazine.

Northumbria University, Newcastle-upon-Type, UK**2001 - 2005***LLB Law Exempting - 2:2*

- Thesis: "An international study of corporate manslaughter law."

ACTIVITIES

Public Speaking**2009 - Present**

- Hadoop Summit Conference, San Jose, CA, June 2013.
- Madison Ruby Conference, Madison, WI, August 2012.
- Various Meetups - Highlights: NYC Machine Learning, Madison Big Data, Mad Rainers.

Big Data Madison Meetup**Jan 2013 - Present***Organizer*

- Meetup group focusing on big data technologies.
- Arranging speakers, organizing meetups, finding funding, etc.

Media Arts and Game Development @ UW-Whitewater**2011 - Present***Advisory Board Member*

- Advise on curriculum & help judge student works at the annual expo.

NYU Masters Association of Computer Science**Sep 2009 - May 2011***President / Officer***Threadneedle Charity Committee****2008 - 2009***Board Member*

- Coordinate with charities, encourage staff participation, arrange funds.