

# Christopher Hansen

Greater New York City Area

Data Engineer at Spotify

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## Experience

### Software Engineer at Spotify

September 2015 - Present (4 years 1 month)

Building pipelines and services to drive data products.

Tools: Scio (Google Cloud Dataflow), Scalding, Apache Crunch, Google BigQuery, Google

BigTable, Google Cloud SQL, GraphQL, Luigi

Languages: Scala, Java, Python

- Developed Java backend micro-services and Scala pipelines to power artist and rights holder facing playlist pitching platform
- Rolled out the next iteration of Spotify's engineering career development framework to empower engineers to grow as either individual contributors or managers
- Prototyped real-time stream count service and pipeline, which was sponsored and productionized into the Spotify for Artists mobile app
- Devised and implemented attribution model and Scala pipeline to track downstream streams of tracks stemming from on-platform and off-platform campaigns
- Built data pipelines to target drop-day new release notifications to fans and followers of artists with new content
- Developed data pipelines driving metrics in Spotify Fan Insights, the first iteration of Spotify for Artists, using Apache Crunch framework

### Product Development Analyst at Spotify

July 2014 - September 2015 (1 year 3 months)

- Support A/B testing of music recommendation features and evaluate test results
- Conduct in-depth investigations into how users engage with programmed music features and recommendations to drive product development
- Define squad metrics and create pipelines and dashboards to track progress and growth

### Analyst at Spotify

July 2012 - June 2014 (2 years)

- Analyzed feature effectiveness in surfacing new and relevant track and artist discoveries, and created a data pipeline to track music discovery

- Created an email database and pipeline to drive marketing and trial retention email campaigns
- Developed metadata pipeline to integrate ad server and sales data with Hadoop data to allow for improved ad metrics reporting
- Supported various departments (Ads, Marketing, Content, PR, Product, BD, Legal) with ongoing analyses, data pipeline implementation, A/B test evaluations, and dashboard development

#### **Associate at Novantas**

**June 2010 - June 2012** (2 years 1 month)

- Optimized term product renewal pricing to maximize spread revenue by creating elasticity models in SAS
- Created a dynamic small business checking lineup restructuring tool with an Excel front-end and Access back-end for a leading Canadian bank
- Installed and implemented a deposit pricing tool for a leading U.S. regional bank

#### **Business Analyst at Gotham Consulting Partners**

**September 2009 - May 2010** (9 months)

- Developed a proactive investment strategy for a \$1B private equity fund
- Devised a growth strategy model for a \$1.2B exterior building products manufacturer and supplier
- Conducted an operations diagnostic assessment for a \$45MM producer of personal care products
- Performed customer and market due diligence research for a \$200MM safety products manufacturer

#### **Investment Banking Summer Analyst at UBS**

**June 2008 - August 2008** (3 months)

- Conducted extensive research and performed analyses based on historical and projected financial data to identify industry trends for use in company presentations
- Created profiles of potentially acquirable utility assets and power plants for use in pitch materials
- Generated acquisition and trading comparables from various financial and regulatory documents for a board presentation

#### **Research Assistant at MIT Sloan School of Management**

**October 2007 - May 2008** (8 months)

Assisted Senior Lecturer John Akula in his research of carbon emissions trading, EU transportation law, and anti-monopoly law.

#### **Extern at yOOnew, Inc.**

**January 2008 - February 2008** (2 months)

- Researched and devised a search engine optimization plan to improve traffic to the startup company's website
- Created a plan to improve community building among users of the company website
- Researched sports stadium data to improve pricing models

- Conducted online marketing through the use of blogs, message boards, and forums

#### Intern/Assistant at Watson Wyatt

June 2007 - August 2007 (3 months)

- Analyzed financial reports for trends in compensation changes resulting in changes in accounting standards
- Studied various proxy statements to determine general patterns in the compensation discussion and analysis section
- Used quantitative means to determine relationships between various performance indicators for several large corporations

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## Education

Massachusetts Institute of Technology

BS, Mathematics, Management Science, 2005 - 2009

Taipei American School

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**Linked**  **Recruiter**