

# ALEX INGBERG

## WORK EXPERIENCE

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**2019 - present**    **MACHINE LEARNING ENGINEER – Outbrain**

ML Engineer at the Research Infra team, Recommendations group. Main developer and owner of various internal products that help data scientists automate their work, allowing them to deploy Machine Learning models in production at a large scale. Managed to improve the Data Science cycles speed in the company by 10x by orchestrating the training, deployment and ABtesting cycles through Airflow-based Python-coded tools. End to end responsibilities: backend and frontend development, Data Science research with field-aware factorization machines, MLOps & product management.

**2018 - 2019**    **DATA ENGINEER - Namogoo**

Data Infrastructure & Machine Learning Engineer. Carry on projects on algorithms and data pipeline optimization from research all the way to production. Amazon Suite: Redshift, RDS, S3, SQS, Elasticsearch. Microsoft Azure. Python development.

**2018**    **DATA SCIENTIST INTERN - Chorus.ai**

Utterance analysis of sales calls using natural language processing and other machine learning techniques to get new insights for the company.

**2016 - 2017**    **FULL-STACK SOFTWARE ENGINEER - Cactus Apps (Buenos Aires)**

**2015 – 2016**    **SOFTWARE ENGINEER - AW Software (Buenos Aires)**

## EDUCATION

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**2017 – 2018**    **ISRAEL TECH CHALLENGE – FELLOWS PROGRAM - DATA SCIENCE TRACK**

500 hours of intense professional training including machine learning, natural language processing, statistics, data visualization, feature engineering and deep learning.

**2011 – 2016**    **MSc. & BSc. COMPUTER ENGINEERING - Universidad de Buenos Aires, Facultad de Ingeniería**

Oriented to production systems. My optional courses were mostly based on artificial intelligence and Machine Learning.

## LEADERSHIP AND OTHER EXPERIENCES

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**2021 - present**    **Nevo Network – Fellow**

Nevo creates multipliers of impact from top-talent Israeli immigrants who are already employed in Israel. Nevo offers each cohort a chance to develop themselves, expand their network and give back to their new home. Nevo focuses on intimate conversations with top leaders, mentoring, and network expansion to deeply integrate immigrants into the Israeli tech ecosystem.

**2019 – present**    **Sofar Sounds Tel Aviv – Crew lead**

Approach brands/organizations within the city for new partnerships, book artists from music submissions, manage and lead the volunteers group, filmmakers and photographers. General direction, logistics and operations during show days.

Born on January 10<sup>th</sup> 1992 in Buenos Aires, Argentina

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## TECHNICAL SKILLS

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**Python**, C, Java.

SQL databases.

Advanced OOP, design patterns and code efficiency.

Git and SVN repositories.

Jira, Trello & Monday task managers.

Linux, MacOS and Windows environments.

## LANGUAGES

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**SPANISH**    native

**ENGLISH**    bilingual

Certificate of Proficiency in English -

Cambridge University

**HEBREW**    intermediate

## RELEVANT PERSONAL PROJECTS & PORTFOLIO

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### **Bewildering Brain:** writing songs like Bob Dylan using machine and deep learning.

An exploration of Markov Chains and RNNs (Recurrent Neural Networks), a comparison and analysis of which one outputs better results and how they both perform when predicting the lyrics of Bob Dylan (or Luis Alberto Spinetta in the Spanish version). Pulled lyrics from Genius API and guided myself with Spotify's Web API.

📄 Github project

📄 Bewildering Brain: Bob Dylan's version (published in Towards Data Science) (in English)

📄 Oraciones artificiales: Luis Alberto Spinetta's version (published in Ciencia y Datos) (in Spanish)

📄 Article published in La Nación, Argentina's most prestigious newspaper (in Spanish)

📄 Article published in Silencio.com.ar, a music medium from Argentina (in Spanish)

### **Spotify ReWrapped:** Spotify surprises us every December with their cool end-of-the-year specials. Nevertheless, this year some of the reports on my account were not making much sense. I decided to investigate...

Pulling data from my Spotify and Last.fm accounts using their APIs, I did some time series analysis to check which were my real stats and see if what Spotify told me in my Spotify Wrapped end-of-year summary was correct. Also did some interesting data visualization to help explain my insights.

📄 Github project

📄 Spotify ReWrapped in Medium (published in Towards Data Science)

### **Data, data:** an immersive analysis into Jorge Drexler's universe through statistical exploration of his music and lyrics.

Through data coming from both Genius's API and Spotify's API I've been able to analyze Jorge Drexler's music and get some insights and visualizations on his creative process and his songs in general; both from the lyrics side and the musical theory side. Wordcount, lexical and lyrical density, sentiment analysis and analysis of musical components like tempo, time signature and key are all analyzed in depth.

📄 Github project

📄 Data, data in Medium (published in Towards Data Science)

📄 Article published in El Observador, one of the Uruguayan newspapers with widest distribution (in Spanish)

📄 Article published in Redaccion.com.ar, a new and modern Argentinean medium (in Spanish)

### **MusicMagal:** a deep learning and machine learning approach to music group recommendation.

MusicMagal is a group recommendation system that recommends n music tracks to a group of m users taking all of the m users preferences into account. Used last.fm data, an alternating least squares model and item2vec embeddings. After computing and when the resulting playlist is output, we create a real playlist using Spotify Web.

📄 Github project

📄 MusicMagal in Medium (published in Hacker Noon)