

**Andrés Fernando Barón Sandoval**

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## Professional Profile

Software Engineer dedicated to improving skills through hands-on learning and development work. I am fluent in a wide array of programming languages used to develop large software projects. Well-organized and collaborative player with strong communication and analytical abilities. I have proficient knowledge in computational tools such as R and Python applied to machine learning and deep learning computational models focused on business analysis. Complementary studies in English and German.

## STUDIES

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<b>2022</b> <i>Bogotá - Colombia</i>	<b>Master's degree in Software engineering.</b> Universidad de los Andes
<b>2021</b> <i>Buenos Aires -Arg</i>	<b>Engineering Backend Program</b> Digital House Coding School
<b>2021</b> <i>Bogotá - Colombia</i>	<b>MasterTrack Principles of Automated and Agile Software Engineering.</b> Universidad de los Andes
<b>2020</b> <i>Bogotá - Colombia</i>	<b>Diploma in Big Data and Business Analytics</b> Universidad de la Sabana
<b>2020</b> <i>Bogotá - Colombia</i>	<b>Mechanical Engineer</b> Universidad de los Andes
<b>2015</b> <i>Bournemouth - UK</i>	<b>Administration and entrepreneurship in business</b> Beet Language School of Bournemouth
<b>2013</b> <i>Bogotá - Colombia</i>	<b>High School Diploma (Best student graduated)</b> Liceo Cervantes el Retiro
<b>Languages:</b>	<b>Spanish:</b> Native <b>English:</b> Advanced (C1) <b>German:</b> Intermediate (B1)

## WORK EXPERIENCE

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<b>Apr.2021 – Current. 2021</b> <i>Bogotá, Colombia</i>	<b>MercadoLibre</b> Backend Software Analyst <ul style="list-style-type: none"><li>• Unification of machine learning models with software architectures to serve the trained models on the e-commerce platform, using REST services.</li><li>• Development of the Experimental Viewer in the machine learning division, this project visualizes AI experiments within the marketplace. Constructed with React JS and Flask.</li><li>• Implementation of APIs to decouple existing architectures and facilitate the scaling of the recommendation service with the marketplace.</li></ul>
<b>Nov.2020 – March. 2021</b> <i>Bogotá, Colombia</i>	<b>Serlefin BPO &amp; O</b> Software Engineer <ul style="list-style-type: none"><li>• Developed PCC (Petitions, complaints, and claims) mailing platform which resulted in an efficient and secure application for the customer. The application was developed with Java, Bootstrap and Angular 11.</li><li>• Designed the frontend and backend of the Enterprise Resource Planning, one of the most ambitious projects of Serlefin BPO&amp;O, whose main objective is to unify all the systems and management of the company in a single portal. The project was developed using Vue js and C#.</li></ul>

**Apr.2020 – March. 2021**

**Bogotá, Colombia**

**Serlefin BPO & O**

Innovation Engineer

- Construction of robots powered by artificial intelligence in order to improve the contactability of the company's call center.
- Automation of financial portals using Javascript, C# and Tampermonkey, to improve the experience of customers when making financial inquiries.
- Development of APIs for data acquisition requested by human resources and telecommunications divisions. The projects were carried out with MVC architecture pattern and Entity Framework.

## **COURSES, SEMINARS AND CERTIFICATIONS**

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- Big Data Analytics: Opportunities, challenges, and the Future  
Griffit University – Queensland, Australia.
- Structuring Machine Learning Projects  
Deep Learning.AI
- Improving Deep Neuronal Networks: Hyperparameter tuning, Regularization and Optimization.  
Deep Learning.AI
- Google Cloud Platform Big data and Machine Learning fundamentals  
Google
- Google Cloud Platform Fundamentals: Core Infrastructure  
Google
- Architecting with Google Kubernetes Engine  
Google
- Professional Certificate Automation with Python  
Google
- Scrum Foundations Professional Certificate (SFPC)  
Certiprof
- Python Data Structures  
University of Michigan – Michigan, United States

## **PUBLICATIONS**

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**20 Nov 2020**

**Bogotá, Colombia**

### **Webscrapping to El Tiempo newspaper using Python**

Medium

Descriptive project of webscrapping as a tool for unstructured data acquisition.

**14 Jul 2020**

**Bogotá, Colombia**

### **Artificial intelligence among us.**

El Espectador

Publication in the newspaper El Espectador, about the contribution of artificial intelligence in our society.

**15 Jun 2020**

**Bogotá, Colombia**

### **The importance of data and privacy.**

El Espectador

Publication in the newspaper El Espectador about the importance and value of data in the digital age.