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Software engineer and psychologist from Universidad de Los Andes. Experience in integration of medical images machine learning solutions into web applications. Interest towards image analysis and natural language processing. Knowledge on using supervised and unsupervised models to analyze data in python, Angular applications and managing SQL databases and statistical analysis with SPSS.

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### **Academic formation**

#### **Software engineering.**

Universidad de Los Andes.  
Bogotá. 2015 – 2023.

**(Relevant courses:** Data analysis with Machine Learning, Natural Language Processing, Business Intelligence).

#### **Psychology.**

Universidad de Los Andes.  
Bogotá. 2015 – 2023.

**(Relevant courses:** Design and analysis for research, neurochemistry and psychopharmacology, neuropsychology).

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### **Work experience**

#### **Universidad de Los Andes – Project CIRCA**

##### **Developer and Junior Researcher**

(February 2023 – December 2023)

Deploy a medical image segmentation algorithm as a plugin for a medical image web viewer.

#### **Universidad de Los Andes**

##### **Images and vision Teacher Assistant**

(August 2023 – October 2023)

#### **Universidad de Los Andes**

##### **Business Intelligence Teacher Assistant**

(July 2022 – December 2022)

#### **Midnight Vip Entertainment SAS**

##### **Website maintenance engineer**

(October 2021 – April 2022)

Posting events on the website, troubleshooting ticket issues and doing maintenance of the SQL database of MiTaquilla.com.co

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### **Academic accomplishments**

**Neuroscience and behavior research team** (August 2017 - actual).  
Building of a low-cost equipment to measure startle response and to measure nosepoke choices on rodents, using Arduino, Python and acrylic sheets.

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### **Courses**

**FHIR Camp**

HL7 Colombia, March 2023

**Building Transformer-Based Natural Language Processing Applications**

NVIDIA, November 2022

**NMA - Deep Learning**

Neuromatch Academy, July 2022

**NMA - Computational Neuroscience**

Neuromatch Academy, July 2021

**Introduction to programming in Python I: Learning to program with Python**

Pontificia Universidad Católica de Chile on Coursera, December 2019

**Introduction to UML**

Universidad de Los Andes on Coursera, July 2020

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### **Others**

Languages:

English B2

French A2

Programming languages:

Python (advanced), SQL (intermediate), Java (Intermediate), JavaScript (Intermediate), CSS (Basic), Angular (Basic), AWS (Basic)

Programs:

Office intermediate (Excel, Word, Publisher, Power Point)

SPSS

Arduino IDE

EAGLE (basic)

Extracurriculars:

Student representative of Psychology, 2019

Preparatory Choir. Universidad de Los Andes. 2016-2019