

Hoovert Andres Arredondo Andrade

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DATA SCIENTIST | CYBER SECURITY ENGINEER | COMPUTER SCIENCE ENTREPRENEUR

Computer Science professional with 10+ years of experience in both the public and private sector providing data engineering, data science, BI, cyber security, and product development. Trained in cyber security, enterprise use of encryption, blockchain, and secure systems. Work Auth: *Qualified for OPT May 2023 - 2026.*

RELATED SKILLS

- **Data Software:** Apache Spark, Tableau, Google Data Studio and BigQuery, PySpark, numpy, pandas
- **ML models:** xgBoost, Linear regression,, Decision Trees, Random forests, K means clustering, PCA, K nearest Neighbors, SVG
- **AI models:** Naive Bayes Classifier, Alpha Beta Pruning, Q learning, Neural Networks, Genetic Algorithms
- **Programming Languages:** Python, JavaScript, C, php (Laravel, Codeigniter), MySQL
- **Cloud Computing:** AWS, Google Cloud Platform (GCP)
- **Business competencies:** Bilingual in Spanish and English, excellent written and verbal presentation skills, Expert Agile, management experience, client and investor interfacing and communicating as well as other stakeholders. Data metrics driven technical vision and leadership, infrastructure management, Proficient in probability and statistics

EDUCATION

Master of Science in Computer Science (Cyber Security and Data track) May 2023
University of Southern California Los Angeles, Los Angeles, CA

Bachelor of Science in Computer Science and Industrial Engineering May 2011
Universidad de Los Andes, Bogotá, Colombia

PROFESSIONAL EXPERIENCE

Data Scientist, Los Angeles, CA April 2021 – Present
USC Computer Science Graduate School

- Processed and built dashboards for 15+ years of Student Data and their journeys through Masters, PhDs, Fellowships, Research assistants, and scholarships using Python, Apache Airflow, Apache Spark or Scala, and DBT visualized through Tableau
- Developed ETL pipeline to acquire 400K+ rating data on 200+ restaurants and points of interest from SQL Server DBs.
- Optimized a xgBoost Regression model to predict student recommendations for restaurants and other points of interest, collaborated with Web Dev team to deploy model on USC Experience website, with bi-weekly newsletter sent out to 5K+ audiences highlighting popular recommendations.

Co-Founder and head of Data Engineering, Bogota, Colombia (Remote) May 2021 – Jan 2023
Favik.io

- Helped secure pre-seed and seed round of financing totaling \$4.5M USD
- ETL: Built Data pipelines 15 services to a data lake in Google Bigquery, increasing data insights with Google Data studio dashboards, and reducing operating costs by 50% over 18 months
- Performed K means clustering and NLP sentiment analysis on 82k records of influencer followers scraped from instagram, and 23k store customers to determine overlap and potential network effects between the brands' communities.
- Analyzed data from 12 brands with online store, fulfillment, customer service, accounting, email and ads marketing in a scalable and cost-efficient data warehouse.

Head of Engineering Latin America, Bogota, Colombia August 2011 - August 2020
Backbone Technology

- Designed and implemented Data Architecture for around 100 web platforms with an estimated total budget of \$2M USD including enterprise level ecommerce platforms, digital newspapers, political campaigns, & internal operations platforms. Data pipelines with Airflow, DBT, Python
- Hired and managed a staff of 28+ of developers, Analysts, Information Architects, web designers and marketers
- **Major Projects at Backbone:**
 - Siaco Grupo Repremundo **Data Warehouse construction**
 - Lead a staff of 8 over the course of 6 months for a total budget of \$180K USD
 - **ETL:** built data pipelines extracting and consolidating operational data from 5 different organizations handling 590 clients into a data warehouse.
 - Built Dashboards using Tableau and other BI platforms for management, finances, operations and client visibility.
 - Presidential and Congressional 2014 **Colombian Political Campaign Data Engineering**
 - Lead a staff of 12 over the course of 7 months for a total budget of \$500K USD
 - Built ETL pipelines consolidating supporter and voter data across all regions of the country
 - Gathered and analyzed Voter registration data from 3 million individuals and built data visualization for advertising, communication strategies, rally coordination, campaign trail planning, and others
 - Papa Johns Colombia Web E-Commerce Platform **Data pipelines development**