

Juan Sebastian Caicedo Alfonso

Data Scientist | Machine Learning Engineer  www.jseb.dev

Experience

Backend Developer - at MobGames

Jan 2023 - Present

- Create and maintain API to deliver AI models to cloud instances through continuous delivery strategies using AWS services.
- Creating and terminating dedicated instances in the cloud using secure SSH connections, maximizing security, and minimizing the time for dedicated instances to be ready to use by AI models.

Technology Stack: **Python, PyTorch, S3 bucket, AWS Lambda, SSH, SQL.**

Backend Developer - at Encora

Apr 2022 - Oct 2022

- Fixed bugs and optimize database communication from a recently acquired tool by the company for intelligent process development in the biopharmaceutical and biotech industry.
- Create automatic cleaning data algorithms to feed the most relevant data into machine learning models.
- Achieve overall client satisfaction to expand the original contract from 6 months to 2 years.

Technology stack: **Python, MongoDB, Docker, Kubernetes, Gitlab CICD, AWS, SQS, Lambda, S3 Bucket.**

Backend Developer - at Nufi

May 2021 - Apr 2022

- Developed and trained a nonpayment risk prediction engine for fintech clients.
- Extracted, cleaned, and loaded individuals' and companies' data to feed it to different ML models.
- Lead the design of API endpoints for new services
- Designed and managed databases to store newly obtained information from newly implemented services.

Technology stack: **TensorFlow, Python, Django, node.js, express, AWS EC2, AWS Lambda, AWS RDS.**

Coding/ Math Teacher - [old teacher profile](#)

May 2016 - May 2021

- Autonomous virtual teacher to students worldwide.

Main topics: **Javascript, Python, React, Java, linear algebra, differential calculus.**

Projects

Logistic Regression Titanic Challenge - [repository](#)

Apr 2023 - Apr 2023

Trained a logistic regression model to predict survivors from the Titanic disaster obtaining an accuracy of 78.23%. Used features engineering techniques including extraction of information using regex, hot-encoding, and imputing missing values.

Technology Stack: **Pandas, Scikit-learn, numpy, matplotlib, seaborn**

StockPredictor - [demo](#)

Apr 2023 - Apr 2023

Created an LSTM model with **TensorFlow** and **Keras** to predict Apple stock prices, achieving high accuracy of 78% in validation data. Deployed a demo on Hugging Face Spaces to showcase the model's capabilities.

Port-e-commerce.shop - [deployment](#)

Oct 2022 - Nov 2022

Design, develop and deploy a massive E-commerce website store. This full-stack project is built with **Nextjs, React, Redux, Django, GraphQL, docker, and Postgres**. It's fully deployed and implements features like creating accounts, authentication with JWT, image uploading and storing, profile editing, email password reset, and tag and search engine.

Automatic investment robot in Python

Dec 2017 - Jul 2018

Designed and deployed to AWS instances a Python algorithm that predicted market trends and made investment decisions in both the forex and stock market.

Details

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Technical Skills

- Python
- Javascript
- Numpy
- SQL
- TensorFlow
- Pytorch
- Pandas
- Scikit-learn
- Keras
- Excel
- AWS
- Docker
- Power BI

Profile

I am a detail-oriented professional with a passion for uncovering insights from complex data sets.

Thanks to my eagerness to learn and research and my passion for machine learning algorithms, deep learning frameworks, and cloud computing, I've designed and deployed scalable solutions to complex problems for the fintech, gaming, and pharmaceutical industries.

My most remarkable projects are data manipulation pipelines, integration of automated messaging services, API design architecture, web scraping, and serverless computing in AWS.

Languages

- **Spanish:** Native
- **English:** Conversational - Proficient
- **French:** Basic A2

Cryptographic system based on AES-256 (TESIS)

Jun 2015 - May 2016

Design and develop a secure and efficient implementation of the Advanced Encryption Standard (AES) algorithm with a key size of 256 bits. This project provides a **Python** implementation of AES-256 encryption and decryption using the **PyCrypto** library.

Education

Software developer, Holberton School

Feb 2021 - Jan 2022

Holberton School is a peer-learning, project-guided, and self-learning-based full-stack software engineering school. At Holberton, I could propose and lead 5 different projects from the usual curriculum. Build several full-stack projects in teams of 5 with a basis in **Python, Javascript Django, SQL, NoSQL, REST, GraphQL, React..**

Electronic Engineer, Universidad del Valle

2011 - 2016

Electronic engineering bachelor. Learned to design, develop and implement software programs to meet the needs of cutting-edge electronic devices and systems.

Courses & Certifications

- Neural Networks in the industry with Keras - 2023
- Django Course: Testing, Static Files, Django Admin - 2022
- Django Course - 2022
- Professional Python Development Course - 2022
- AWS Cloud Computing Compute, Storage and Databases - 2022
- AWS Cloud Computing with EC2 - 2022
- AWS Cloud Computing roles and security with IAM - 2022
- Introduction to AWS Cloud Computing - 2022
- React Native Course - 2022
- NextJs Course - 2022
- Angular Course - 2022
- React Course - 2022
- Svelte Course - 2022
- Kotlin Course - 2022