# Juan Sebastian Caicedo Alfonso

Data Scientist | Machine Learning Engineer 🌐 www.jseb.dev

## Experience

### Backend Developer - at MobGames
Jan 2023 - Present
- Revolutionizing the way 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 to train or use AI models.

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

### FullStack Developer - at Encora
Apr 2022 - Oct 2022
- Migrate cutting-edge technology tool recently acquired by the company for intelligent process development in the biopharmaceutical and biotech industry.
- Learned and migrated legacy technology from a heavy code load of more than 30 repositories to the client system before their first release in under 3 months.
- Achieve overall client satisfaction to expand the original contract from 6 months to 2 years.

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

### Software Developer - at Nufi
May 2021 - Apr 2022
- Lead the design of RESTFUL APIs for new services to offer to clients, implementing them in the company's servers, and creating a graphical feature in the website to display and use these news services.
- Develop apps that implement third-party APIs to obtain and store clients' data.
- Expanded the communication channels between the company and its end users by designing and implementing several applications.

Technology stack: **React, React native, node.js, express, selenium, Stripe, Twilio, Python, Django, 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-ecommerce.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

- github.com/jsebdev
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## Technical Skills

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

## 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