

Jeremi Alcalá

Software Developer

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SKILLS

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| • Python | • Flask | • Meta Llama2 |
| • Java | • Pandas | • Project Management |
| • JavaScript | • Machine Learning | • Agile |
| • PHP | • TensorFlow | • Scrum |
| • MongoDB | • Lambdas | • TDD |
| • Oracle SQL | • Amazon Cloud EC2 | • RabbitMQ |
| • PostgreSQL | • Amazon Cloud SQS | |
| • Django | • Amazon Cloud SES | |
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WORK EXPERIENCE

Freelance Developer

Web-Ones

Jan 2022 - Present

- We have created a Chatbot Platform using Python, which includes FastAPI, PyTorch, MemCache, and Mongo engine. This platform enables companies to manage their chatbot lifecycle. It features a Llama2 Implementation that allows users to interact with the AI to get general answers. The administrator controls and incorporates the actions.
- Develop a bot that integrates with the alpaca API and Binance, develop custom methods using "NumPy" and "Pandas" to create indicators like "Bollinger Bands" and "Stochastic RSI" validating signals for executing trades, generating a machine learning model that determines the best signal to execute a trade.
- Implemented an "On-Premises" Streaming Platform able to serve thousands of clients delivering content controlling access and credentials.
- Design a base architecture (Python FastAPI | Flask) that uses a combination of messaging queues (RabbitMQ) and sockets (Socket IO) to process and deliver fast and reliable information to its users.

Engineering Manager

NovoPayment

May 2021 - Dec 2022

- Spearheaded the development and implementation of a pioneering social benefit platform (Java Spring Boot, Oracle PL/SQL, Python Flask) for the largest bank in the Dominican Republic in 2022. Successfully managed the issuance of three million cards and accounts during Q4, marking a significant achievement.
- We successfully integrated QR payments for a client in Peru in June 2021 using Java Spring Boot and Amazon SQS, significantly enhancing payment system efficiency and accessibility.
- In April 2021, I oversaw the project management and timely delivery of 150,000 heartfelt Mother's Day cards to the largest bank in the Dominican Republic.

Developer Coordinator

NovoPayment

Jun 2016 - Apr 2021

- In 2020, I oversaw the implementation of four B2B solutions (Java/Oracle/PHP), enabling 40,000 users to disburse payments and provide greater value to collaborators.
- In August 2019, I assumed the role of Product Owner in a Scrum/Agile environment. I successfully led the design of prepaid card solutions for a major bank in Ecuador. My contributions to the architecture, scalability, and performance of both B2B and B2C were instrumental in the project's success.
- In June 2018 spearheading the design of a robust backend application that efficiently managed the account lifecycle for multiple financial entities. The application incorporates innovative SHA-256 encryption with a 4096-bit cipher to ensure top-notch security (JWE/JWT). Public and private keys are dynamically generated, either upon client request or based on the client's unique ID, tailored to suit each use case.
- In November 2017, I played a significant role in developing a digital assistant named "MIA" for Tebca's Provis Alimentación program chatbot. This project utilized AngularJS, Python Flask, and MongoDB to improve user interactions and provide essential account information to over 500,000 users.

Software Developer Analyst	NovoPayment	Oct 2015 - May 2016
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- As a Senior Developer in May 2016, developed a USSD Automated Monitoring Interface for a financial enablement platform, leveraging Python 2.7 and the serial library to operate on a GSM network.

Senior developer	Nodnet Informatica c.a.	Jan 2013 - Sept 2015
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- In January 2015, I created a web application using PHP and Postgres that efficiently managed raw material inventory while also tracking manufacturing history.
- I have developed a proof of concept called "Can we measure the movement of a horse?" which uses C# and OpenCV technologies. This concept allows us to identify the number of steps a horse takes during a race. Implementing an Android app that can detect specific features of a horse picture and determine the type of race it could be for.
- In February 2014, we built an innovative web-based payroll application that seamlessly integrates PHP5 and PostgreSQL with state-of-the-art biometric controls for accurate employee attendance tracking. Our solution has helped businesses streamline their payroll processes and save valuable time while ensuring precision and reliability.

IT Administrator	Power Puente c.a.	Jun 2006 - Dec 2012
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- Designed a system in June 2010 that tracked viewers of an LED Big screen, optimizing advertisement timing, and increasing airport revenue by 35%.
- Implemented a VOIP Freeswitch server in April 2008 that linked Lima and Caracas offices, reducing communication costs by 45%.
- In February 2007, I developed a monitoring system using C++ and MySQL. The system facilitated communication between LED big screens and the local office, enabling error resolution.

EDUCATION

API Security on Google Cloud's Apigee API	Coursera	Apr 2020
Informatics	IUT Industrial Rodolfo Loero Arismendi - IUTIRLA	Sept 2005
Programming and Systems Analysis	Centro de Contadores.	Jul 2002
Network Technician	Academia Americana.	Feb 2002
Graphic Design	Itelca.	Jun 2000