



ASIER ALCAIDE MARTINEZ

SOFTWARE ENGINEER

Qualified and professional big data/backend developer
with more than 6 years of experience

EXPERIENCE

BIG DATA ENGINEER

UltraTendency, Berlin

August 2021 - Present

- **Agora** Project (ECB) - 2024 to Present. Collaborating and including new features to datasets with billions of Hive/Impala rows. Similar tools as in DISC-DEVO Project.
- **DISC-DEVO** Project (European Central Bank) – September 2022/2023. Data Intelligence Service Centre.
 - Data collection and integration of multiple data sources including European Central Banks.
 - Maintaining and developing new features in production environments, working with terabytes of data, billions of rows, directly with the customer.
 - Tools used: Hadoop, Hue, Impala, Hive, Spark, GitLab CI CD pipelines, Ranger, Cloudera Platform, Java 11, Angular, etc.
- **SPACE** Project (European Central Bank) – 2021/2022.
 - Developing multiple solutions in the QA Team. People from all over Europe worked in a new statistical system for ECB.
 - Using Python Notebooks with PyTest lib.
- **HUK-Coburg** – 2021.
 - Developing a real time crash notification system from customers.
 - Using Kafka consumers and producers, HBase connections, SOAP and REST Endpoints with Java and Spring.

FREELANCE

MásMóvil, Madrid

September 2020 - August 2021

- Moved to Belgium in February 2020. In September of that year, I started to offer my services as an independent Software Engineer for the company.
- Learnt how to build data transferring services from multiple origins and destinations, building configured scripts of Java with Vertx library, Bash/Shell (SSH), Kubernetes, Kafka, Google PubSub, etc.

BACKEND SOFTWARE ENGINEER

MásMóvil, Madrid

September 2019 - September 2020

- Worked in a from-scratch financial Big Data integration project for the company, developing scalable solutions to communicate and translate data with many structures (JSON, YAML, XML, internal data protocols...).
- Designed and implemented REST/APIs in asynchronous libraries of Java such as Vertx, in Google's package manager Bazel, ensuring the maximum scalability and robustness.
- Additional tools used: SQL (Google Big Query), messaging systems (GooglePubSub, Kafka), Docker-Compose, Git, Agile (Jira Atlasian), Airflow.

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SKILLS

- Java/Bazel/Vertx/Spring
- Python/Numpy/Pandas/FastAPI
- REST/API / SOAP
- Keras
- Tensorflow
- Docker
- Kubernetes
- GCP/Microsoft Azure
- Kafka
- Flutter/React
- CD/CI tools (Jenkins, Camunda, GitLab)
- SQL/HUE/Hive/Impala/Ranger
- Spark/ Scala
- Hive/Impala/Hue/Cloudera
- Cloud/Azure/AWS/GCP

LANGUAGE

- Spanish
- English
- French

EDUCATION

SOFTWARE ENGINEERING - COMPUTER SCIENCES

Universidad Carlos III de Madrid
September 2014 – January 2020

BUSINESS ADMINISTRATION

Universidad Carlos III de Madrid
September 2014 - June 2020

COMPUTER SCIENCES - BUSINESS ADMINISTRATION

Tampere University, Tampere
(Finland)
August 2018 - May 2019

BIG DATA - DEVOPS ENGINEER AT BQ

MásMóvil, Madrid

June 2019 - August 2019

- Developed state of the art software in a Data Warehousing team. Designing new big and demanding-scalable infrastructure data management.
- Tools used: Docker, Kubernetes, Helm, Google Cloud Storage, BigQuery, CloudBuild, etc.

MACHINE LEARNING INTERNSHIP AT BQ

BQ, Madrid

February 2018 - August 2018

- Designed and developed new Deep Neural Network algorithms based in facial recognition and verification problems.
- Designed a new model: LIPSNN (Light Intrusion-Proving Siamese Neural Network). It is based on the Siamese Convolutional Neural Network architecture.

PUBLICATIONS

LIPSNN: A LIGHT INTRUSION-PROVING SIAMESE NEURAL NETWORK MODEL FOR FACIAL VERIFICATION

UC3M, Madrid

November 1, 2021

- This paper presents the proposal of a new neural model, which is based on Siamese Neural Networks, benchmarking with other traditional and deep learning models for face verification, specialized in low computing resources systems.

GLOBAL INFORMATION SYSTEMS MANAGEMENT - THE VIEW ON SMART TRANSFORMATION: CONSOLIDATED ASSIGNMENTS FROM SPRING 2019

Tampere University of Technology, Finland

April 12, 2019

- This publication collects different adoptions and/or uses of particular emerging technologies that are taking part in our lives. In my case, our group and I made a deep research and analysis on the "Artificial Intelligence, Augmented Reality and Mixed Reality in Cultural Venues" (p. 81).

PERSONAL/SIDE PROJECTS

IT - CONSULTANT - ENERGY SPAIN

February 2024 - Present

- Design and develop an complete Cloud-Based electricity system application in Azure.
- Tools used: Azure Functions, Azure Pipelines/Devops, Azure SQL Database, Azure Blog Storage, Azure Data factory, Python.

RESUMINE

February 2023 - Present

- WebApp to help candidates writing cover letters tailored to each job offer to which they apply
- +400 users
- Tools used: React, Typescript, Supabase, Google Analytics

INVESTRA - APP

Dic 2020 – Present

- A personal investing app made with Flutter.
- Still in development, it allows you to visualize and control your financial situation in a better way.
- Python FastAPI as the main backend stack, and Flutter as the App framework.

BYPAY

Oct 2020 - August 2021

- New disruptive payment method system where any physical payment could also be done with our face palms.
- Created an Android App in Flutter. Using python FastAPI for the core backend
- The project was abandoned due to lack of financial support.



FACIAL VERIFICATION WITH DEEP LEARNING ALGORITHMS

Jun 2018 – Aug 2018

- Developing of new Deep Learning AI and architectures to enhance facial verification predictions (Deep Siamese Convolutional Neural Networks). TensorFlow low level implementation.

GLOBAL HOME RENOVATION

Apr 2024 – Present

- Designed and implemented a comprehensive renovation plan, outlining timelines, milestones, and deliverables for a home 1920s house.
- Budget Oversight: Allocated and monitored a limited budge, ensuring cost-effective purchasing and adherence to financial limits.
- Team Coordination: Directed a team of contractors, designers, and suppliers, maintaining effective communication to achieve project goals within set deadlines.
- Tools used: AutoCAD, Google sheets, Jira Board and Sprint Timelines, Sledgehammer, Circular saw, Screwdrivers, Wire stripper