About me

I am Software Engineer by passion. During my 5+ of years of experience as a professional developer I implemented a C++ fitting routine extracting model parameters from CERN data and a NLP chatbot using Python and Tensorflow. I can beat songs on Expert+ on Oculus BeatSaber.

Professional Experience

Present Software Engineer, Counter Abuse Technologies, Google Contractor

Mar 2020

- Implemented WebRTC video streaming frontend and FaceMesh Tensorflow model.
- Implemented accessibility features.
- Ensured quality with unit and integration tests applying TDD.

Present CTO & Co-Founder, Server Infrastructure, Aplikato

Jan 2020

- Advising a team of four software developers.
- Built server and networking infrastructure. Implemented Kubernetes with dynamic NFS storage provision and Jenkins CI/CD automation.
- Mar 2020 Data Scientist, Data Lake Architecture, Fresenius Medical Care
- Jan 2020
- Architectured the storage, query and aplication layer of a Data Lake using Kubernetes, MinIO,
 Parquet, Presto and Ranger (see: Data Lake Architecture at Fresenius Medical Care).
- Apr 2019 CTO, Ethereum Blockchain, CYSAE (Startup)

Mai 2018

- Led a two people developer team.
- Implemented an Utility Token to allow for the trading of legal services.
- Implemented a web application anchoring documents in the Ethereum blockchain using Solidity, React, GraphQL, S3 and Postgresql hosted on AWS EKS.
- Apr 2018 CTO & Co-Founder, Fintech Chatbot, Alda (Startup)
- Oct 2017
- Implemented a Fintech Chatbot using React, Flask, Postgres and Tensorflow hosted on AWS (see: How to build a chatbot from zero).

Education

- Jul 2019 **Ph.D., Theoretical Physics**, *Universitat Autònoma de Barcelona/Aix-Marseille Université*, A grade
- Oct 2015 The QCD Strong Coupling from Hadronic Tau Decays.
 - Implemented a parallized and unit tested C++ fitting routine to extract model parameters using data provided by CERN.
- Sep 2015 M.Sc., Particle Physics, Universitat Autònoma de Barcelona
- Oct 2014 1-Loop Anomalous Dimensions of 4-Quark Operations.
- Sep 2014 B.Sc., Condensed Matter Physics, Goethe University
- Oct 2011 Band Structure Studies of Graphene

Main Skills

Languages TypeScript, JavaScript, Python, C++, Java, SQL

Style TDD, OOP, dependency injection, pair programming, CI/CD

Stacks Node.js, Express, React, Vue, Flask, Jest, AWS

Software Git, Docker, Kubernetes, PostgreSQL, NFS, Jenkins

Awards

- Imagine Silicon Valley Finalist
- Winner: Imagine Developer Dreamer
- Best Fintech Pitch at "Fintech War" (1000 EUR)
- MetLife Iberia Financial Inclusion Award (4000 EUR)
- Winner Adidas Hackathon Barcelona (1000 EUR)