About me

I am Software Engineer by passion. During my 5+ 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 have the ambition to work at one of the big tech companies in San Francisco like Uber.

Professional Experience

Present Software Engineer, Counter Abuse Technologies, RMIT Group Supporting Google

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 (Startup)

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 (6000 EUR)