### 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 Contract Software Engineer, Counter Abuse Technologies, Google

Mar 2020

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

## Present Maker, Extended Reality, Project

December 2020

- Creating an extended reality glass prototype using a Nvidia Jetson Nano, a RGB-D camera, a stereo camera, a gyroscope sensor and two OLED displays.
- Implementing a hand pose model.

# Mar 2020 Data Engineer, Data Lake Architecture, Fresenius Medical Care

Jan 2020

 Architectured the storage, query, and application layer of an Azure based 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, GraphQL, Angular, React, Vue, Flask, Jest, Azure

Software Git, Docker, Kubernetes, PostgreSQL, Ceph, Jenkins

#### Awards

- Best Fintech Pitch at "Fintech War" (1000 EUR)
- MetLife Iberia Financial Inclusion Award (4000 EUR)
- Winner Adidas Hackathon Barcelona (6000 EUR)