### 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. I was part of the core team of Fresenius Medical Care implementing a Data Lake. I develop embedded systems in my personal lab.

## 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 C++, Python, Bash, Ruby, JavaScript, Java, SQL

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

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

Software Git, Make, Cmake, Bazel, 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)