

## Dirk Hornung, PhD



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### Languages

German	● ● ● ● ●
English	● ● ● ● ●
French	● ● ● ● ●
Spanish	● ● ● ● ●

### Skills

Data Science	■■■■■
Frontend	■■■■■■■
Backend	■■■■■■■
Blockchain	■■■■■
Prototyping	■■■■■

#### Data Science

Python, Tensorflow, Keras, Hadoop, Spark, Pandas, Numpy, Matplotlib, Deep Learning

#### Frontend

JavaScript, TypeScript, React, Angular, React Native, Redux, Flutter, CSS, HTML

#### Backend

AWS, NodeJS, Express, MySQL, PostgreSQL, MongoDB, DynamoDB, Serverless, Flask

#### Blockchain

Ethereum, Solidity, Smart Contracts, Token Economy, Decentralised Identity, ICO

#### Prototyping

Arduino, C++, Fusion 360, 3D-Printing, CNC, Electronics

## Professional Experience

- 05/18 - 02/19 **CYSAE** - Legaltech Startup  
CTO (2 Developers)  
**Utility Token for Cuatre Casas**  
Created an Utility Token, within the Ethereum Blockchain, that allows to buy legal services by paying with a Cryptocurrency.  
**Stamper**  
Created a web application that anchors documents in the Ethereum Blockchain, to establish secure contracts.  
**Boardchain**  
Developped a web application to remotly hold decentralised board meetings.
- 10/17 - 04/18 **Alda** - Fintech Startup  
CTO & Co-Founder (1 Developer)  
**Alda Chatbot**  
Created a Fintech Chatbot that serves as a personal financial advisor.  
**Chatbot UI**  
Created a mobile app for the Chatbot, which has been integrated in serveral companies.

## Education

- 10/15 - 07/19 **Ph.D., Theoretical Physics**, UAB (Spain) / AMU (France)  
Thesis: The QCD Strong Coupling from Hadronic Tau Decays
- 10/14 - 09/15 **M.Sc., Particle Physics**, UAB (Spain)  
Thesis: 1-Loop Anomalous Dimensions of 4-Quark Operators
- 10/11 - 09/14 **B.Sc., Condensed Matter Physics**, GU (Germany)  
Thesis: Band Structure Studies of Graphene and Modified Graphene Structure

## Awards

- **Imagine Silicon Valley Finalist.**  
One of ten finalists of more than 500 applicants to be sponsored for a Silicon Valley trip.
- **Winner: Imagine Developer Dreamer.**  
Got selected to participate in the "Imagine-Express-Train".
- **Best Fintech Pitch**  
Awarded 1st price at Fintech Stage's event "Fintech War" of over +16 fintech startups plus a 1k€ cash price
- **Winner Adidas Finals Hackathon**  
Created the "Adidasum" ICO for an API data marketplace.
- **MetLife Iberia Financial Inclusion Award**  
Awarded a 4K€ cash price at MetLife Iberia to keep promoting Financial Inclusion.
- **Winner Adidas Hackathon Barcelona**  
Created surveillance system to track and identify customer satisfaction.