

Dirk Hornung, Ph.D.

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Professional Profile

Theoretical solid-state and high-energy physicist.	7+ years
Data Scientist	4+ years
Blockchain Developer	2+ years
Full Stack Developer	10+ years

Professional Experience

May 2018 - Jan. 2019	CYSAE <i>CTO</i> Utility Token for Cuatre Casas, Certifying documents with the help of Ethereum, Enterprise Democracy on Chain Tech: Solidty, Ethereum, Node, Express, React, Redux, GraphQL, Prisma, NoSQL, Docker, AWS S3 www.cysae.com
Oct. 2017 - Apr. 2018	Alda <i>CTO & Co-Founder</i> Fintech Chatbot helping Millenials in Financial Education Python, NLP, AWS Lambda, Dialogflow, Facebook API, React, Redux, PostgreSQL, Serverless
Feb. 2017 - Sept. 2017	WeGoLoco <i>CTO & Co-Founder</i> Matchin Tinder with the Local Commerce Swift, iOS, AWS S3, NoSQL

Education

- 2015 - 2019 Ph.D., Theoretical Physics, Autonomous University of Barcelona (Spain)
Thesis: The QCD Strong Coupling from Hadronic Tau Decays
Supervisor: Dr. Matthias Jamin
Created a numerical C++ fitting routine from scratch.
- 2014 - 2015 M.Sc., Particle Physics, Autonomous University of Barcelona (Spain)
Thesis: 1-Loop Anomalous Dimensions of 4-Quark Operators
Supervisor: Dr. Matthias Jamin
- 2011 - 2014 B.Sc., Condensed Matter Physics, Goethe University Frankfurt (Germany)
Thesis: Band Structure Studies of Graphene and Modified Graphene Structure
Supervisor: Prof. Dr. Roser Valentí

Skills

Blockchain	Ethereum, Solidity, Smart Contracts, Tokens economy, Decentralised Identity, ICOs
Data Science	Python, Pandas, Numpy, Matplotlib, Tensorflow, SVM, ANN, Mathematica
Frontend	Javascript, React, React Native, Redux, Spring, CSS, HTML
Backend	AWS, Node, Express, MySQL, Postgress, Node, DynamoDB, Serverless, Flask, Zappa, Django
Prototyping	Arduino, C++, Fusion 360, 3d Printing, CNC, Electronics
Marketing	Photoshop, Illustrator, Final Cut Pro, SEO, SEM, Wordpress, PHP
Soft	Leadership, Public Speaking, Motivating, Mentoring, Confidence, Energy

Awards

June 2019	Imagine Silicon Valley Finalist. One of ten finalists of more than 500 applicants who sent in a one minute video (https://www.youtube.com/watch?v=Om1DGAa7Cgw) to be sponsored for a Silicon Valley trip.
February 2018	Winner: Imagine Developer Dreamer. Got selected to participate in the "Imagine-Express-Train".
September 2018	Best Fintech Pitch Awarded 1st price at Fintech Stage's event "Fintech War" of over +16 fintech startups plus a 1k cash price
July 2018	Winner Adidas Finals Herzogen-Aurach Created the "Adidasum" ICO for an API data marketplace to democratise data and connect data provider, data scientists and data consumer.
May 2018	MetLife Iberia Financial Inclusion Award Awarded a 4K cash price at MetLife Iberia to keep promoting Financial Inclusion.
April 2018	Winner Adidas Hackathon Barcelona Created a system that could uniquely identify faces and track emotions. We trained a model to predict the probability of a client purchasing a certain item in an Adidas store.

Languages

German:	native
English:	proficient
Spanish:	proficient
French:	intermediate
Hungarian:	basics