

Dirk Hornung, Ph.D.

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Dear Hays,

I am Dirk Hornung, a recently graduated PhD student at the institute of high energy physics of the autonomous university of Barcelona with 5+ years of experience in leading the technology in different Startups. Within my studies, I researched low-energy QCD and the determination of Standard Model parameters. In principle, I found intelligent ways to extract parameters of theoretical models out of experimental data.

Besides my studies, I am an entrepreneur. During the last year, I developed Smart Contracts in the Ethereum blockchain and connected them through REST APIs using Node Express for a legaltech. Before I developed a chatbot using artificial intelligence for a fintech. We connected our clients through Messenger to their bank accounts and analysed their banking information using Python. I am furthermore a Full-stack developer with lots of experience developing applications using React as frontend and AWS services as a backend.

I am very confident that I would be an excellent choice for any upcoming challenge!

Sincerely,
Dr Dirk Hornung

P.S. I am a native German, but also fluent in English, French and Spanish. Visit drdirk.io to get to know me better.

Professional Experience

- May 2018 - Jan. 2019 **CYSAE**
CTO
Utility Token for Cuatro 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**
CTO & Co-Founder
Fintech Chatbot helping Millenials in Financial Education

Python, NLP, AWS Lambda, Dialogflow, Facebook API, React, Redux, PostgreSQL, Serverless
- Feb. 2017 - Sept. 2017 **WeGoLoco**
CTO & Co-Founder
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

Languages

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