Dirk Hornung, Ph.D.

City:	Barcelona
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Dear Hays,

I am Dirk Hornung, a recently graduated Ph.D. 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.

Apart from my studies I am an entrepreneur. 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 a 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.

Professional Experience

May 2019 - Jan. 2019	**CYSAE**
	CTO
	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
	https://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 scretch.
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, Solidty, Smart Contracts, ERC20, ERC725, ICOs
Data Science	Python, Pandas, Numpy, Matplotlib, Tensorflow, SVM, ANN, Mathematica
Frontend	Javascript, React (Hooks), 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