Dirk Hornung, Ph.D.

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Dear ZI-Mannheim,

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. I developed a parallelized C++ fitting routine to extract parameters of theoretical models out of CERN 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 analyzed 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.

Concerning High-Performance-Computing I have experience in designing virtual private networks in AWS, especially with Docker and Kubernetes. I have a running Hadoop cluster as a playground in lab. I am a advanced Unix user (the shell and emacs are my home).

Currently I am educating myself on the topic of Artificial Intelligence and Machine Learning, especially in the field of Deep Learning. I recently completed Andrew Ng's Coursera Deep Learning Specialization. Apart from that, I am practising my Tensorflow and Keras skills within python sound wave simulations and active noise cancelling.

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.