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| **Dirk Hornung, Ph.D.**  **dirk.png**  **PERSONAL**  **Address:**  Carrer Sant Pacia 3,  08001 Barcelona  **Phone:**  +34 (0)695 460 404  **Email:**  [dirkhornung91@gmail.com](mailto:dirkhornung91@gmail.com)  **Date of birth:**  05.10.1991  **Place of birth:**  Fulda, Germany  **LANGUAGES**  German – native  English – proficient  Spanish – proficient  French – intermediate  **SKILLS**  JavaScript, ES6, React, Redux, Redux-Saga, Angular, Webpack, Babel, Git, Jenkins, NPM, Yarn, Jira, GraphQL, Prisma, Node, Express, REST API, AWS, Trello, Gitlab, C++, Java, Typescript, Python, SQL, CSS, HTML, TDD, MySQL, PostgreSQL, MongoDB |  | **OBJECTIVE**  Recently graduated theoretical physics PhD candidate with 5+ years of experience in programming JavaScript-based web applications and optimized C++ optimized numerics. Entrepreneurial spirit seeking to apply his Full-Stack abilities.  **WORK EXPERIENCE**  05/2018 - 01/2019  CTO, CYSAE SEVERLA S.L., Madrid Spain  Responsibilities:   * Created an utility token for Cuatre Casas   (React, Express Rest API, Ethereum, Solidity, ERC-20)   * Created an on chain document certifier   (React, Redux, Redux-Saga, AWS S3, GraphQL, Prisma, Stampery API, Docker, AWS ECS)   * Decentralized votings in companys   (React, Redux, Ant Design, Solidity, AWS S3, AWS amplify)  10/2017 – 04/2018  CTO, Aldabot S.L, Barcelona Spain  Responsibilities:   * Created a Fintech Chatbot for Messenger   (Serverless, AWS Lambda, Facebook API, Dialogflow API Saltedge API, MongoDB)   * Created PWA for the Chatbot   (React, Redux, Redux-Saga, AWS amplify)   * Implemented the Chatbot in Liferay   (Java, Tomcat, Liferay)  09/2016 – 09/2017  CTO, WeGoLoco, Barcelona Spain  Responsibilities:   * Created an Ecommerce App   (React Native, Redux, AWS RDS)  02/2016 – 08/2016  CTO, FuldaCity, Fulda Germany  Responsibilities:   * Created an Event App   (MongoDB, Express, Angular, Node, Cordova)  **EDUCATION**  2015 - 2019  Ph.D., Theoretical Physics, Autonomous University of Barcelona Thesis: The QCD Strong Coupling from Hadronic Tau Decays, Created a C++ fitting routine from scratch to extract parameters from CERN data  2014 - 2015  M.Sc., Particle Physics, Autonomous University of Barcelona Thesis: 1-Loop Anomalous Dimensions of 4-Quark Operators  2011 - 2014  B.Sc., Condensed Matter Physics, Goethe University Frankfurt Thesis: Band Structure Studies of Graphene and Modified Graphene Structure |