

Dr. Alois Dirnaichner

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ABOUT ME

I do **Web Development** and **Data Science**. Co-created the climbing community platform **cruxle.org**. I grew up with Physics, worked on carbon nanotubes and in energy-systems research. Along the way I also did a lot of **modelling**.

EXPERIENCE

- **Hmetrica GmbH** 11/2022 - Present
Web Developer Munich
Freelance project
 - Create a webinterface for the energy-system model Calliope
 - Job control via Celery
- **Potsdam Institute for Climate Impact Research e.V.** 05/2018 - 10/2022
Data Analyst Potsdam
Internationally renowned climate thinktank
 - Modeling energy systems and transportation demands
 - Life-cycle footprint analysis
- **TU Berlin** 05/2016 - 03/2017
App Developer Berlin
Project Bida-LAP: Big data for Smart Farming Applications
 - Create a Smart Farming application for mobile
 - Integration of machine learning tools
- **mitopo UG, Munich** 05/2016 - 04/2018
Founder, Full Stack Munich
Web Developer
Community platform for the exchange of climbing information
 - Backend with Django
 - Frontend development, integration von vue.js
 - Continuous integration and deployment

SKILLS

- **Languages:** Python, R, Typescript, Fortran
- **Technologies:** django, pandas, scipy, numpy, docker, angular

EDUCATION

- **PhD, Physics** 12/2011 - 05/2016
University of Regensburg Regensburg
Charge and spin transport in carbon nanotubes
- **Diploma in Physics** 09/2005 - 05/2011
Ludwig-Maximilians Universität Munich
- **Abitur** 07/2004
Gymnasium Wasserburg Wasserburg am Inn

PROJECTS

- **piraterace.com** Angular, Django
<https://github.com/Loisel/piraterace>
Web-based multiplayer game reminiscent to the board game Roborally.
- **cruxle.org** Django, jQuery
<https://gitlab.com/cruxle/cruxle>
Platform to exchange climbing route information
- **PREMISE** Python
<https://github.com/polca/premise>
Coupling the ecoinvent database with projections from Integrated Assessment Models (IAM)