Dr. Alois Dirnaichner

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○ https://github.com/loisel

⑂ https://gitlab.com/loisl

in https://www.linkedin.com/in/dirnaichner

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**   05/2018 - 10/2022
  Climate Impact Re-   Potsdam
  search e.V.
  Data Analyst
  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
    - Continous integration and deplyoment

SKILLS

- **Languages:** Python, R, Typescript, Fortran

- **Technologies:** django, pandas, scipy, numpy, docker, angular

EDUCATION

- **PhD, Physics**   12/2011 - 05/2016
  University of Regens-   Regensburg
  burg
  Charge and spin transport in carbon nanotubes

- **Diploma in Physics**   09/2005 - 05/2011
  Ludwig-Maximilians   Munich
  Universität Munich

- **Abitur**   07/2004
  Gymnasium Wasserburg   Wasserburg am Inn
  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)