JOHN DOE

Test Developer

john_doe@email.com +01-2345-678901 City, Country
linkedinUser githubUser npmUser devtoUser

STRENGTHS

One Two Three Four
Five Six Seven Eight
Nine Ten

Red Yellow Blue Green
Violet Orange

LEARNING

Uno Dos Tres Cuatro
Cinco Seis Siete Ocho
Nueve Diez

Rojo Amarillo Azul
Verde Violeta Naranja
Marron Blanco Gris
Negro

LANGUAGES

Lang 1: Native

Lang 2: Basic / A2

REFERENCES

Ref 1

Ref 2

Ref 3

ABOUT ME

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EXPERIENCE

Junior Actuary | ERGO

12/2022 – 04/2023 Cologne Health Insurance

- Automatisation and testing of actuarial computations in R.
- Developing GUIs for automated actuarial workflows.
- Implementing a CI/CD pipeline.

R Shiny GitHub

Research Assistent | Technical University

11/2022 – 03/2023 Munich Research

- Publishing my master's thesis as a paper in SIAM.
- Building a CI/CD pipeline for the implemented algorithm.

Python GitHub

Working Student | MEAG

12/2021 – 07/2022 Munich Asset Management

- Automatic parsing and compiling of risk data pertaining to financial assets in R.
- Automatic visualisation of risk metrics in PowerBi, PowerPoint and HTML reports in R.
- Creating custom R packages including unit testing and documentation.

R Tidyverse Azure DevOps

Master's Thesis | Technical University

11/2021 – 07/2022 Munich Research

- Development of a state of the art rare event estimation method.
- Implementation as a professional Python package.
- Using containerisation to run numerical experiments on the Google Cloud.

Python Docker

Joint Research Project | Technical University and Continental Automotive

10/2020 – 03/2021 Munich Research

- Mathematical modelling of an autopilot.
- Finding the best trajectory through multiple traffic lights.
- Solving an optimal control problem.

MATLAB LaTeX

Working Student | Cevotec

04/2019 – 07/2019 Munich Robotics

- Implementation and parallelisation of optimisation algorithms in C++.
- Development of new optimisation methods for fibre patch placement
- Development of unit and integration tests.

C++ Jira Bitbucket

Research Assistent | Technical University

03/2019 – 05/2019 Munich Research

- Implementation of a time integrator in Julia based on my bachelor's thesis.
- Contribution to the scientific computing project DifferentialEquations.jl
- Basis for one of the fastest state of the art explicit extrapolation methods.

Julia GitHub

Internship | BMW

04/2018 – 08/2018 Munich Automotive

- Error analysis of coupled systems in MATLAB.
- Scientific research on the topic of model order reduction.
- Documentation of research results with LaTeX.

MATLAB LaTeX

EDUCATION

Master Mathematics in Science and Engineering Minor in Medical Technology | Technical University

03/2019 – 10/2022 Munich

- Final grade 1.4
- Exchange semester at the University of Waterloo, Canada (2021)
- Specialization in numerics and statisti

Python Julia Matlab

B. Sc. Mathematics with Minor in Informatics | Technical University

10/2014 – 01/2019 Munich

- Final grade 1.7
- Specialization in numerics and probability theory

Java Julia C/C++

PROJECTS

Rare Event Estimation | Publication of my master's thesis

11/2021 – 07/2022 https://github.com/dkruger/hostpad/tree/master

- Development of a state of the art rare event estimation method.
- Implementation as a professional Python package.
- Using containerisation to run numerical experiments on the Google Cloud.

Explicit Extrapolation Methods | Publication of my bachelor's thesis

03/2019 – 05/2019 https://github.com/dkruger/hostpad/tree/master

- Implementation of a time integrator in Julia based on my bachelor's thesis.
- Contribution to the scientific computing project DifferentialEquations.jl
- Basis for one of the fastest state of the art explicit extrapolation methods.