

Niko Steinhoff

data engineer, athlete, gamer, plain text aficionado



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## Personal Information

**Niko Steinhoff**

06.07.1985, Flensburg

German

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## Experience

### January 2019 - Juli 2020 | Senior Data Engineer

**Risk 42 Software (Risk Prevent Software GmbH)**, Mönkedamm 11, 20457 Hamburg, GER

*Software Development - Risk Assessment*

- Greenfield development of risk assessment platform INFINITY for consumer credit loan applications
- Design and implementation of machine learning backend infrastructure and services for INFINITY
- Continuous testing and deployment of machine learning models and services

### May 2017 - December 2018 | Senior Data Engineer

**Risk.Ident GmbH**, Am Sandtorkai 50, 20457 Hamburg, GER

*Software Development - Fraud Prevention*

- Design and implement state-of-the-art distributed machine learning micro-services for model training, evaluation and deployment in close co-operation with Data Science
- Continuous improvement and extension of feature engineering and fraud prediction components for Frida
- Unifying machine learning and rule-based fraud risk scoring

## April 2015 - April 2017 | Data Scientist

**Gpredictive GmbH**, Lilienstraße 11, 20095 Hamburg, GER  
*Software Development - Big Data (SaaS Application)*

- Implement automated pipeline for building and deploying predictive models
- Research projects to improve model performance
- Setup and maintain Continuous Integration testing and deployment of internal python projects
- Automated integration testing of service oriented backend

## June 2013 - January 2015 | Data Scientist

**ForexInnovation GmbH**, Falkenried 88, 20251 Hamburg, GER  
*Software Development - Algorithmic Forex Trading*

- Design and implementation of trading algorithms in C# and MQL (MetaQuotes Language)
- Statistical analysis of real and simulated performance of algorithms in order to project future returns using R
- Automation of the performance testing procedure

## September 2012 - June 2013 | Data analyst

**Inquest Institut**, Ohlsdorfer Str. 1-3, 22299 Hamburg, GER  
*Market Research*

- Data analysis with SPSS and Excel
- Spreadsheet design and optimization (Visual Basic)

## January 2010 - June 2011 | Research assistant

**GIGA - Neuer Jungfernstieg 21**, 20354 Hamburg, GER  
*Research - Political Science*

- Analysis of international environmental agreements
- Co-authored paper: “The nature and role of regional agreements in international environmental politics”

# Education

## 2009 - 2013 | Master of Science: Politics, Economics and Philosophy

University Hamburg, GER

*Thesis: "On the Reality of Virtual Currencies: An Analysis of Purchasing Power Parity in Virtual Economies" - Grade 1.0*

## 2006 - 2009 | Bachelor of Arts: Integrated Social Sciences

Jacobs University Bremen, GER

# Skills

## Languages

##### German

##### English

##... Spanish

## Academic

####. Machine Learning

###.. Decision Theory

###.. Econometrics

###.. Game Theory

###.. Time Series Analysis

##... Behavioural Economics

##... Public Choice

## Programming Languages

##### Python

####. Bash

####. Scala

###.. Clojure

###.. Rust

###.. SQL

##... C

##... C#

##... Haskell  
##... JavaScript / TypeScript  
##... R  
##... Various Lisps and Schemes

## Libraries / Frameworks / Tools

##### ScikitLearn  
##### Vim  
####. Docker  
####. Git  
####. Numpy  
####. Pandas  
###.. Apache Kafka  
###.. Apache Spark  
###.. Elasticsearch  
###.. Kubernetes  
###.. MLflow  
###.. SciPy  
##... LaTeX

## Other

####. CI/CD  
####. Functional Programming  
####. Test-Driven Development (TDD)  
####. XP / Agile Methodologies  
###.. Object Oriented Programming (OOP)

### *Activities / Achievements*

- Github: <https://github.com/NSteinhoff>
- Kaggle: <https://www.kaggle.com/uristic>
- "Functional Programming in Scala Specialization" - Coursera
- "President's List for outstanding academic performance" of the Jacobs University Bremen School of Humanities and Social Sciences (2006/2007, 2007/2008, and 2008/2009)
- Foreign exchange year in Nelson, New Zealand (2002/2003)
- Semester abroad at the University of Barcelona (09/2008 - 03/2009)
- Internship at SourceIt GmbH in Shanghai, China (06/2008 - 09/2008)
- 'Sports Advisor' at Jacobs University Bremen (2007 - 2009)
- Ski and snowboard instructor for University Hamburg (2011 - 2016)

### *Hobbies*

- Calisthenics, Hand balancing
- Skiing, Touring/Backcountry skiing, Telemark

- Unhealthy addiction to Roguelike games ;)