

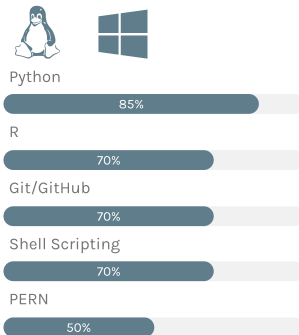
Silvio Schwarz

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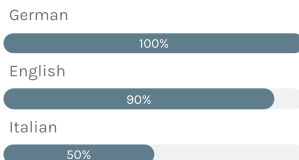
Expertise

ground motion seismology
ArcGIS QGIS machine learning
PERN probability

Skills



Languages



Certificates

Tensorflow
Developer, Data and Deployment, Advanced Techniques, GANs, NLP, MLOps

Google
Google IT Support

Stanford University
Machine Learning

IBM
IBM Full Stack-Cloudentwickler

Interests

Negotiation
Machine Learning
Books
Music
Philosophy
Heuristics
Italy
Web Development
Python
Psychology
Running
Nature
Hiking
Guitar
Piano
Uncertainty
Bayesian Statistics
Mindfulness

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Work Experience

Student Researcher **Universität Potsdam**

May 2019 - Oct 2019

Classification of eruptive tremor sources of Holuhraun sequence, Iceland

- signal processing of earthquake data
- fingerprinting seismograms of tremor with the FAST algorithm

Student NIS Specialist **Assecor GmbH, Berlin**

Aug 2014 - Jun 2015

maintenance of power grid documentation for Vattenfall Europe Sales GmbH

- topographically correct data entry in Smallworld GIS
- successfully resolved conflicts in documentation

Student System Administrator **Assecor GmbH, Berlin**

Nov 2013 - Mar 2014

migration of IT Infrastructure to Windows 7 for BIOTRONIK SE & Co. KG

- remote client upgrade to Windows 7
- roll-out of update packages via remote server
- maintenance and upgrade of hardware components

Internship R&D **Wolfram|Alpha, Champaign, USA**

Sep 2012 - Nov 2012

develop geophysical content for Wolfram|Alpha [Click for Demo](#)

- collaborative development by using version control in Eclipse
- interactive calculation of seismic magnitude scales, earthquake characteristics, ground motion prediction and response spectra

Student Researcher **Universität Potsdam**

Jun 2011 - Aug 2012

seismological consulting for Council for Geoscience, Pretoria, South Africa

- interactive calculation of source-to-site distances of earthquakes
- established two new source-to-site metrics
- 1 week consulting for Prof. Julian J. Bommer, Imperial College London

Internship **Universität Leipzig**

Mar 2011

maintenance of the seismological network of Saxony

- configuration of ISDN routers through minicom/hyperterminal
- on-site collection of seismological data and maintenance of stations
- processing of 2010 Maule Earthquake data of for Dr. Klaus Bataille, Chile

Education

GIS and Webmapping **GIS Akademie Berlin**

Feb 2022 - Sep 2022

ArcGIS, QGIS, Webmapping

- Georeferencing, Vector-/Rasterdata, Maplayout, Automation
- PyQGIS, Plugin Creation, working with PostgreSQL/PostGIS
- HTML, CSS, JavaScript, PHP, openLayers, LeafletJS, GeoServer

Master of Science - Earth Science **Universität Potsdam**

Oct 2011- Sep 2019

Geophysics - 90/120 LP abgeschlossene Studienleistung

- Internship: Wolfram|Alpha. 2012
- 1. Thesis: Sensitivity Study of a Bayesian Approach. 2014-2016
- 2. Thesis: Classification of tremor sources during the Holuhraun sequence, Iceland. 2019

Bachelor of Science - Earth Science **Universität Potsdam**

Oct 2008 - Sep 2011

Geologie, Mathematik, Physik, Chemie

- Internship: Universität Leipzig. 2011
- Abschlussarbeit: Simulation von Bodenbewegungsszenarien von Starkbeben

Projects

Terror X Africa **HackHPI about://social.good**

2019

22h hackathon: IBM cross-border effects challenge on armed conflicts

TerremotoPi

2015 - current

seismic station with real-time capabilities bases on a Raspberry Pi

