



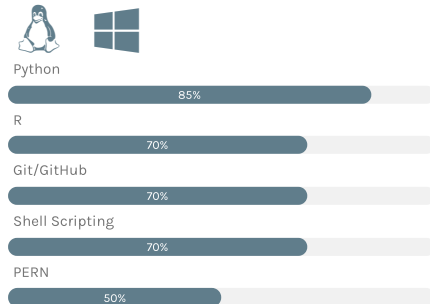
Silvio Schwarz

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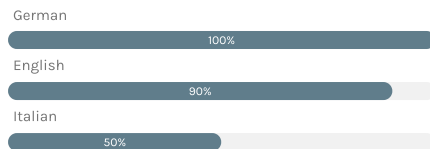
Expertise

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
Web Development
Python Drums
Psychology
Running Nature Hiking
Guitar Uncertainty Piano
Bayesian Statistics
Mindfulness

Work Experience

Student Researcher

May 2019 - Oct 2019

Universität Potsdam

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

Aug 2014 - Jun 2015

Assecor GmbH, Berlin

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

Nov 2013 - Mar 2014

Assecor GmbH, Berlin

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

Sep 2012 - Nov 2012

Wolfram|Alpha, Champaign, USA

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

Jun 2011 - Aug 2012

Universität Potsdam

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

Mar 2011

Universität Leipzig

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

Feb 2022 - Sep 2022

GIS Akademie Berlin

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

Oct 2011- Sep 2019

Universität Potsdam

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

Oct 2008 - Sep 2011

Universität Potsdam

Geologie, Mathematik, Physik, Chemie

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

Projects

Terror X Africa

2019

HackHPI about://social.good

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

TerremotoPi

2015 - current

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

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