






Christopher Siller

Software Engineer, M.Sc.

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Up-to-date version of CV is available at
https://ChriSil.github.io/cv_v2

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Python ●●●● C++ ●●●● TensorFlow ●●●● PyTorch ●●●● NodeJS ●●●● MatLab ●●●●
ROS ●●●● Docker ●●●● Linux ●●●● Embed. Linux ●●●●

I'm a Software Developer with four years of professional experience, currently working in an interdisciplinary team focused on utilizing Data Science to enhance the reliability of industrial machinery. This project involves bringing Machine Learning to the industry in Tirol, Austria. I have a strong interest in the field of Machine Learning and its potential to revolutionize various aspects of our society.

Professional Experience

Apr 2022 - Present

Ferchau Engineering, Innsbruck, AT

Software Engineer

I am currently working as Software Engineer in a team of Data Scientists and Developers, developing tools to enhance the reliability of industrial machinery. My particular interest revolves around utilizing machine learning to generate new insights from the large amounts of data available to us.

- Acquisition, analysis and processing of machine and machine related data.
- Data Visualization Interfaces built using Flask, Dash, Plotly.
- Backend Development and Data Availability using ClickHouse, Prefect, AWS, SQL

Python AWS Docker Kubernetes Pandas Numpy Dash

Oct 2018 – Oct 2021

Hatch Ltd., Portland, OR, USA

Software and Systems Engineer

Part of the Rail Systems Engineering group. Responsibilities revolved mainly around development and application of TrainOps©, Hatch LTKs proprietary operations and electrical network simulation software, as well as some related field work.

- TrainOps Development: feature implementation, beta testing, real world application.
- Postprocessing and analysis of simulation results, working on new approaches to meet high data volumes.
- Acquisition and preprocessing of field data to build simulation scenarios.

C++ Python MatLab

Nov 2015 – Dec 2017

Siemens Transmission Solutions,, Erlangen, Germany

Working Student, R&D

R&D Team member, building a test facility for a high voltage DC Switch. My task was to build a virtual workbench to allow remote charging, testing and monitoring, as well as test result analysis.

LabView C++ MatLab

Oct 2014 - Jul 2015

Siemens Rail Electrification, Portland, OR, USA

Trainee, Project Engineering

Introduction to technical project management. Assisted in installing inspecting DC Substations. Facilitated automated Factory Acceptance Test (FAT) workbench for Rectifiers and DC Switchgear.

LabView MatLab Siemens NX

Jun 2012 - Sep 2014

Siemens Infrastructure and Cities,, Erlangen, Germany

Working Student, IT Infrastructure

Working Student in part time, helping on-site with user IT issues, migration of Operating Systems, maintenance and migration of databases and server environments.

SQL Linux VBA SharePoint Access

Education

Master of Science, Maschinenbau, Friedrich Alexander Universität Erlangen-Nürnberg [2015 - 2018] Bachelor of Science, Maschinenbau, Friedrich Alexander Universität Erlangen-Nürnberg [2011 - 2015]

Masters Thesis

"Software development to calculating flight trajectories for autonomous multicopters in intralogistics"

- This project kickstarted my passion for software engineering, especially in utilizing Open Source resources. I was tasked with building the backend for an autonomous fleet of drones, and the integration of position data into flight trajectory calculations.
- Intrafly Project, University of Erlangen

C++ Python ROS

Project Thesis

"Fabrication of artificial muscles using the Aerosol-Jet-3D-Print method"

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3D Print Aerosols PLC

Bachelors Thesis

"Experimental and simulative analysis of thermally conductive polymers in high power LED-systems"

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FEM Analysis Thermal Conductivity

Additional Experience

(Currently Semi-active) Involment in the NNFS community. This is an effort to teach understanding of Neural Networks by building them from scratch, using Python's NLTK (Natural Language Toolkit).

- C++

Python

ROS

• I am a Registered Yoga Teacher (RYT 200) with Yoga Alliance USA. I do not actively teach Yoga at the moment.

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