Alexander Christoph

Master of Science,
Electrical and Computer Engineering

ACADEMIC CAREER

Master's degree TU Munich
04/2020 - 08/2023

- Electrical and Computer Engineering (M. Sc.)
- Final grade 1.2 (GPA equivalent: 3.8)
- Focus: Renewable Energies, Machine Learning, Data Science

Exchange semester TU Vienna
10/2021 - 01/2022

- Computer Science and Engineering (M.Sc.)
- Final grade 1.2 (GPA equivalent: 3.8)
- Focus: C++, Python, Machine Learning, Data Science

Bachelor's degree University of Stuttgart
10/2015 - 10/2019

- Electrical and Computer Engineering (B. Sc.)
- Final grade 2.3 (GPA equivalent: 2.7)
- Focus: Automation and Control Engineering
- Promoted by *Deutschlandstipendium* (08/2016-04/2017)

SCHOOL EDUCATION

Johannes-Kepler-Gymnasium Weil der Stadt
09/2007 - 06/2015
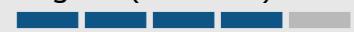
- Allgemeine Hochschulreife
- Final grade 1.7
- Participation in Robotics working group (09/2009-06/2015)
  - Construction and programming of rescue and soccer robots
  - Participation and win at regional competition in Weil der Stadt (12/2009, 12/2011, 12/2014 + 12/2015)
  - Participation and win at qualification event in St. Augustin (02/2013, 02/2014 + 02/2015)
  - Participation at German Open in Magdeburg (04/2010, 04/2014 + 04/2015)

✉ Munich

Languages

German

English (C1 Level)

French (B1 Level)

Programming

Python

Linux
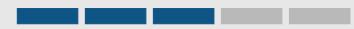
HTML / CSS

C++
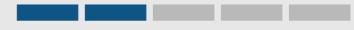
SQL

Javascript / React.js

Java

PROFESSIONAL CAREER

Master's intern MVTec Software GmbH   11/2022 - 07/2023

- Anomaly detection in the sphere of industrial machine vision
- Development of new classification selection algorithms
- Enhancement of existing classification selection algorithms

Vestigas GmbH   since 06/2022

- Freelancer 06/2022 - 09/2023, fulltime since 10/2023
- Backend development in the area of invoice verification
- Implementation of new endpoints in existing API
- Development of new features inside the whole backend pipeline

Working student Siemens AG   04/2020 - 09/2022

- Researching the usability of various different Machine Learning and Deep Learning algorithms for Edge-Cloud Environments and intelligent manufacturing Infrastructure
- Implementing and Evaluating various aforementioned algorithms within an Edge-Cloud

Working student Mercedes Benz AG   03/2017 - 03/2020

- Assessing and Implementing various Machine Learning and Deep Learning Concepts in the sphere of manufacturing Infrastructure
- Organizing and Maintaining an high-end IT cluster for Machine Learning purposes
- Transferring local Machine Learning algorithms onto the cloud environment *Microsoft Azure*
- Implementing different show cases to proof the usability of neural networks in the sphere of image processing and image analysis

VOLUNTEER WORK

Studentischer Automobilverband e.V.   since 11/2016

- Co-founder of initiative's Stuttgart branch
- Supporting the Development of Stuttgart's local college group
- Organizing events with the *SAV*'s cooperation partners

TSV Merklingen 1901 e.V.   03/2011 - 12/2019

- Operating as football referee for U8 and U6 tournaments
- Helping the catering of events
- Preparing and Post processing of events and game days
- Voluntary collecting of waste paper for the club

European elections   05/2014

- Assessor at electoral counting

Data Science ———

FastAPI
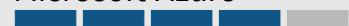
Docker

Spark
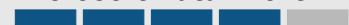
Microsoft Azure

Microsoft ADLS

Microsoft DataBricks

Microsoft WebApps

Pytorch

Flask

Tensorflow

Django