

Alexander Christoph

Master of Science,
Electrical and Computer Engineering

PROFESSIONAL CAREER

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

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

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

ACADEMIC CAREER

Master's degree TU Munich

04/2020 - 08/2023

- Electrical and Computer Engineering (M. Sc.)
- Final grade 1.2
- 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
- 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
- Focus: Automation and Control Engineering
- Promoted by *Deutschlandstipendium* (08/2016-04/2017)



Munich

Languages

German



English (C1 Level)



French (B1 Level)



Programming

Python



Linux



C++



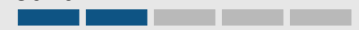
SQL



Javascript / React.js



Java



SCHOOL EDUCATION

Johannes-Kepler-Gymnasium Weil der Stadt	09/2007 - 06/2015
<ul style="list-style-type: none">• Allgemeine Hochschulreife• Final grade 1.7• Participation in Robotics working group (09/2009-06/2015)<ul style="list-style-type: none">– 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)	

VOLUNTEER WORK

Studentischer Automobilverband e.V.	since 11/2016
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Assessor at electoral counting	

Fullstack

FastAPI	<div><div></div><div></div><div></div><div></div><div></div></div>
Docker	<div><div></div><div></div><div></div><div></div><div></div></div>
HTML / CSS	<div><div></div><div></div><div></div><div></div><div></div></div>
Spark	<div><div></div><div></div><div></div><div></div><div></div></div>
Microsoft Azure	<div><div></div><div></div><div></div><div></div><div></div></div>
Microsoft ADLS	<div><div></div><div></div><div></div><div></div><div></div></div>
Microsoft DataBricks	<div><div></div><div></div><div></div><div></div><div></div></div>
Microsoft WebApps	<div><div></div><div></div><div></div><div></div><div></div></div>
Pytorch	<div><div></div><div></div><div></div><div></div><div></div></div>
Flask	<div><div></div><div></div><div></div><div></div><div></div></div>
Tensorflow	<div><div></div><div></div><div></div><div></div><div></div></div>
Django	<div><div></div><div></div><div></div><div></div><div></div></div>