Robin Baumann

Computer Vision Engineer

- October 08, 1996
- Karlsruhe, Germany
- robinbaumann.github.io

About me

I received my MSc degree with distinction from Karlsruhe University of Applied Sciences, where I specialized in Machine Learning. I am particularly interested in Computer Vision and its intersection with Computer Graphics. I like to spend my free time doing all kinds of sports. For example, I currently prepare for a triathlon. To expand my knowledge, I read non-fiction books about different topics and enjoy spending time outdoors with my friends. My other passion besides sports is music. As such, I play the Saxophone and enjoy going to festivals and concerts.

Skills

Python

TensorFlow

Python Scientific Stack

PyTorch

Docker

Git

C++
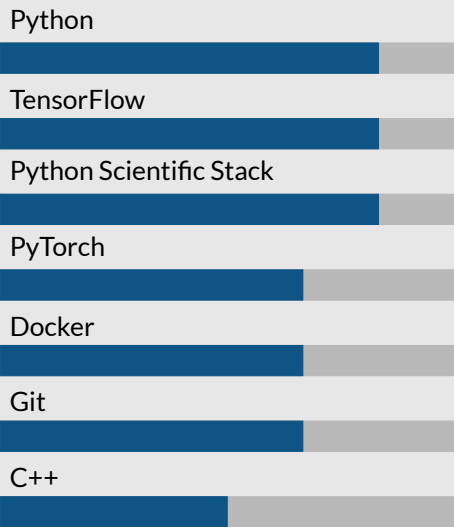
The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).

Education

2019-2021	Karlsruhe University of Applied Sciences
	M.Sc. in Computer Science, Final Grade: 1,2 (GPA equivalent: 4,0)
2015-2018	Baden-Württemberg Cooperative State University
	B.Sc. in Computer Science. Final Grade: 1,4 (GPA equivalent: 3,7)

Employment History

2021 - today — Data Scientist (80 %) — inovex GmbH
Mostly Computer Vision Projects
- Image recognition and foreground segmentation.

Research Assistant (20 %) — Karlsruhe University of Applied Sciences
Continuation of research from Master's thesis
- Effects of data deficiency on shape encoding produced by shape autoencoders used in Neural Fields.

2019 - 2021 — Working Student — inovex GmbH
Several Deep Learning and Data Science projects.
- Deep Learning for mobile devices with TensorFlow Lite

2018 - 2019 — Big Data Scientist — inovex GmbH
Projects in Deep Learning and Data Engineering.
- Point Cloud Classification for iOS Application with TensorFlow

2015 - 2018 — Cooperative Student of Computer Science — Testo SE & Co. KGaA
Circled through many teams in the R&D department.

Projects

2021 — Master Thesis — inovex GmbH
"Autodecoders for 3D shape completion from deficient 3D input"
- Reconstruction of articulated and non-articulated shapes from single-view depth maps using Neural Occupancy Fields.

2020 — Google Summer of Code — TensorFlow
Implemented Mesh R-CNN and Pix3D in TensorFlow Graphics.

2018 — Bachelor Thesis — Testo Visual Systems GmbH
"Classification of reconstructed 3D structures based on object recognition of facade elements in multiple images"
- Integrate Object Detection CNN into Structure from Motion pipeline
- Fuse semantic information from CNN into 3D reconstruction

Interpersonal Skills

I always try to build rapport with my co-workers. I do so by engaging in discussions and offer to stand by for rubber duck debugging. I always try to lead by example and am a reliable co-worker. One of my strengths is to stay calm and perform consistently in stressful projects and prior to deadlines.

For an overview of my work and publications check out my website!