Robin Baumann

Computer Vision Engineer

- October 08, 1996
- Karlsruhe, Germany
- www.robin-baumann.com

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 concerts and festivals.

Skills

Python

TensorFlow

Python Scientific Stack

PyTorch

Docker

Git

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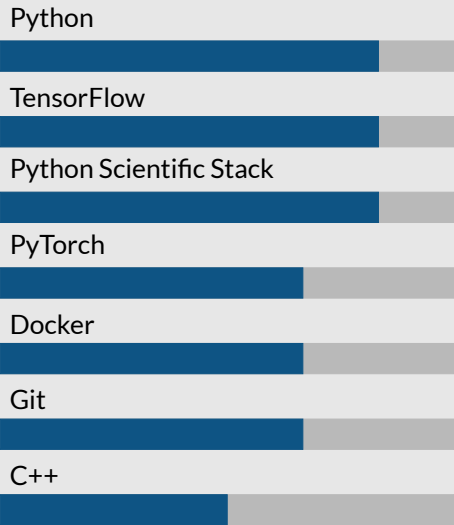
The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).

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 try to lead by example and am received as a reliable co-worker by my peers. 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!