Robin Baumann

Research Associate

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

About me

I received my Masters degree with distinction from Karlsruhe University of Applied Sciences, where I specialized in Machine Learning. Now I work at the Intelligent Systems Research Group at HKA. My research interests are Computer Vision, Neural Fields, and generative Models. Besides my work I live a very active lifestyle, doing different kinds of sports and spending time outside and with friends.

Skills

Python

TensorFlow

Python Scientific Stack

PyTorch

Docker

Git

Cloud Computing (Azure)

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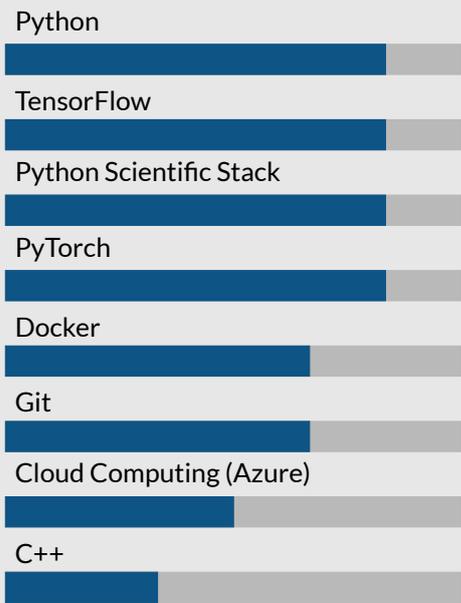
The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).

Education

10/19 – 10/21	Karlsruhe University of Applied Sciences
	M.Sc. in Computer Science, Final Grade: 1,2 (GPA equivalent: 4,0)
10/15 – 09/18	Baden-Württemberg Cooperative State University
	B.Sc. in Computer Science. Final Grade: 1,4 (GPA equivalent: 3,7)

Employment History

07/22 – today — Research Associate — Karlsruhe University of Applied Sciences (HKA)
Research in Computer Vision
- Reconstruction of humans from images/videos

11/21 – 06/22 — Data Scientist (80 %) — inovex GmbH
Mostly Computer Vision Projects
- Image recognition and foreground segmentation.

11/21 – 02/22 — 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.

10/19 – 10/21 — Working Student and Thesis Student — inovex GmbH
Several Deep Learning and Data Science projects.
- Deep Learning for mobile devices with TensorFlow Lite

10/18 – 09/18 — Big Data Scientist — inovex GmbH
Projects in Deep Learning and Data Engineering.
- Point Cloud Classification for iOS Application with TensorFlow

10/15 – 09/18 — Cooperative Student of Computer Science — Testo SE & Co. KGaA
Circled through many teams in the R&D department.

Projects

04/21 – 10/21 — 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.

05/20 – 08/20 — Google Summer of Code — TensorFlow
Implemented Mesh R-CNN and Pix3D in TensorFlow Graphics.

06/18 – 09/18 — 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 knowledge sharing sessions. I try to lead by example and am received as a reliable co-worker by my peers.

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