Susu Hu

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EDUCATION

Dresden University of Technology, Germany   2019 - 2023
Master of Science in Computational Modelling and Simulation   GPA 2.1
Relevant coursework includes machine learning, computer vision, stochastic and probabilities, statistics, data visualisation.
Granted with SECAI scholarship for excellent students in artificial intelligence.
Nanjing Agricultural University, China   2009 - 2013
Bachelor of Science in Logistics Engineering   GPA 3.2/4.0
Relevant coursework includes computer science basics, natural science and engineering basics.
Granted with merit student scholarship.

THESIS

Thesis Deep Learning for 3D Registration, NCT Dresden, Germany   Oct 2022 - May 2023
- Implicit representation learning for non-rigid registration of 3D medical data

EXPERIENCE

Research assistant, NCT Dresden, Germany   Oct 2022 - May 2023
- Weakly supervised medical image segmentation

Working student, Fraunhofer IPA, Stuttgart, Germany   Apr 2022 - Sep 2022
- 2D few-shot object tracking
- Active learning for image labelling

Working student, Fraunhofer IPMS, Dresden, Germany   Aug 2021 - Feb 2022
- Neural network quantization for software hardware co-design
- Explore with different architecture, topology and precision level

Working student, Robotron, Dresden, Germany   Jun 2021 - Feb 2022
- Backend machine learning software development for computer vision tasks such as multi-object tracking for industrial quality control
- Research and evaluate existing methods for chosen tasks and implement with real-life dataset from customers and benchmark results

Project Management, Ford Motor Company, China   2016 - 2019
Supply Chain Specialist, BSH Home Appliance, China   2014 - 2016

PUBLICATIONS

Layer Sensitivity Aware CNN Quantization for CIM Architectures (not online yet)
2022 International Conference on Soft Computing & Machine Intelligence

SKILLS

Fluent in Python, machine learning frameworks (PyTorch, Keras, TensorFlow, scikit-learn, OpenCV, open3D, Huggingface etc.), Git, Linux. Familiar with C/C++, Docker, Microsoft Azure, SQL, blender, R. Basic knowledge of API.

LANGUAGES

English - C1, German - A2, Chinese - native speaker