

MARKUS HINSCHKE

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WORK EXPERIENCE

- JUN 2020–today | Freelancer in Machine Learning and Software Engineering, Berlin
Deep Learning, Machine Learning, Computer Vision, NLP
- AUG 2020–today | Senior Machine Learning Engineer at WELTHUNGERHILFE, remote
Deep Learning, Computer Vision, Open Source
- Child Growth Monitor: detect malnutrition using AI
 - Maintain ML Open Source repository
 - Implement novel algorithms to estimate body height and weight
 - Present ML work in technical meetups talks
- TECHNOLOGIES: Python, Tensorflow, Azure, AzureML
- NOV 2019–JUN 2020 | CTO at DENTALXR.AI GMBH, Berlin
Team Leadership, Deep Learning, Medical Product Regulatory
- Managed a team of 6: engineers and data scientists
 - Setup recruiting process for engineers, conducted 20+ interviews
 - Product management for the dental diagnosis software
 - Co-wrote technical documentation for medical product certification
 - Set up cloud infrastructure, migrated project to the cloud
- TECHNOLOGIES: Python, Django, Tensorflow, PyTorch, Kubernetes, GCP, Dicom, Microservices
- JUN 2018–OCT 2019 | Technical Product Manager at MERANTIX AG, Berlin
Product Management, Deep Learning, Data Engineering
- The product makes vehicle sensor data accessible/meaningful for developers
 - Processed terabytes of driving data (Camera and LiDAR)
 - Used machine learning on the data to extract semantic information
 - Attended conferences: ECCV'18 and ICCV'19
- TECHNOLOGIES: Python, Tensorflow, Docker, GCP, Apache Beam
- JAN 2016–MAY 2018 | Machine Learning Expert at ARTORY GMBH, Berlin
Software Engineering, Data Science, DevOps
- Co-developed a novel web portal for fine art.
 - Conceptualized and built a content creation pipeline.
 - Ensured software quality and security.
 - Conference Visit: NIPS'16
- TECHNOLOGIES: Python, Django, Docker, PostgreSQL, Elasticsearch, Blockchain, Beautiful Soup, Selenium, Jenkins

MORE WORK EXPERIENCE

- APR–DEC 2015 | NLP and Recommender Engineer at TRUFFLS GMBH, Berlin
Data Science, Software Engineering
Conceptualized and developed language model to parse English job postings. Created recommender system to match job seekers and job postings.
TECHNOLOGIES: Python, pandas, scikit-learn, NLTK, Solr, Mahout, Vagrant, IBM Bluemix
- JAN–MAR 2015 | Intern at AMAZON MACHINE LEARNING TEAM, Berlin
Software Engineering
PROJECT: Machine Learning and Image Classification Algorithms within the Computer Vision Team.
TECHNOLOGIES: Python, scikit-learn, numpy, pandas, vispy, internal tools
- JUN 2013–DEC 2014 | Working Student at SAP INNOVATION CENTER, Potsdam
Research / Development for In-Memory Database Management Systems

EDUCATION

- JUL 2012–DEC 2014 | Master in IT-SYSTEMS ENGINEERING, **Hasso Plattner Institute**, Potsdam | with Distinction
CHE-RANKING: 1st rank in computer science degrees in Germany
SPECIALIZATIONS: Information Systems Technology, Human-Computer Interaction
COURSES: Data Mining and Probabilistic Reasoning, Statistical Data Analysis, Data Profiling and Data Cleansing, HCI Research, New Venture Creation in IT, Legal Aspects of Information Technology
PROJECT: Hot Topics in Computer Vision: GPU Programming
MASTER PROJECT: “Semantic Analysis and Classification of Image Streams”, Face Detection using Cascade Classifiers | Chair: Computer Graphics
MASTER THESIS: “[Scanpath Comparison for Visual Search Analysis by Machine Learning](#)” | Advisor: Dr. G. KASNECI and Prof. F. NAUMANN
- SEP 2012–APR 2013 | Exchange Year at **University of California**, Santa Cruz | Grades: A/A+
INDEPENDENT STUDIES in human-computer interaction: Statistical analysis and visualization of study results, Advisor: Prof. S. WHITTAKER
COURSES: Machine Learning, Computer Vision
PROJECT: Kaggle Competition: Observing Dark Worlds - Can you find the Dark Matter that dominates our Universe?
PUBLICATION: Jeremy Baumgartner, Markus Hinsche, Roberto Manduchi: [Empirical Characterization of Camera Noise](#) Pattern Recognition 2013
- OCT 2009–JUL 2012 | Bachelor in IT-SYSTEMS ENGINEERING, **Hasso Plattner Institute**, Potsdam | Final Grade: 1.5
SPECIALIZATIONS: Human-Computer Interaction, System Security
BACHELOR PROJECT: Research project for the usage of interactive touch floors for full body interaction | Advisor: Prof. P. BAUDISCH
BACHELOR THESIS: “Degree-of-Freedom Analysis through High-Speed Tracking of Balls with a Pressure-sensitive Floor” | Advisor: Prof. P. BAUDISCH

PROFESSIONAL SKILLS

AREAS	PROCESSES	LEADERSHIP	
Software Engineering ●●● Machine Learning ●●● Product Management ●●● Computer Vision ●●● Deep Learning ●●● NLP ●●●	Agile ●●● Scrum ●●● Kanban ●●● Holacracy ●●●	Empowering others ●●● Lead by example ●●● Mentoring ●●● Recruiting & Career development ●●● Accountability ●●● Open mindedness ●●●	
PROGRAMMING	INFRASTRUCTURE	SOFTWARE ENG	LANGUAGES
Python ●●● Bash ●●● SQL ●●● Javascript ●●● C++ ●●●	Docker ●●● Git/Github ●●● Kubernetes ●●● GCP ●●● AWS ●●●	Code review ●●● CI ●●● Testing ●●● Facilitation ●●●	German ●●● English ●●● Spanish ●●● French ●●●

PRIZES & SCHOLARSHIPS

MAR 2017	Clue + WATTx Hackathon <i>Our team won the first prize of €3000 for the best solution to the forecasting problem in the female health domain.</i>
OCT 2013	ESF-Stipendium “Technische Machbarkeit” <i>Scholarship of €1350 per month for a technical feasibility study for an own startup - Spinoff from HPI Design Thinking research project “Tangible Business Process Modeling”: Facilitating process analysis workshops for various clients, product and brand development.</i>
AUG 2005–JUL 2006	Scholarship from Rotary Club Berlin-Spree <i>Exchange year in Argentina.</i>