JEAN-MARC HENDRIKSE

Machine Learning Engineer

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EXPERIENCE

Master Thesis
iC Consult GmbH

📅 Jun 2018 – Present ⚲ Stuttgart,Germany

- Developing a machine learning approach for automated vulnerability detection in web applications.
- Leading a team of 4 students on the development and evaluation of Deep Neural Network models for penetration testing.
- Experience with Convolutional Neural Networks, Long-Short-Term-Memory and Reinforcement Learning.
- Deploying machine learning solution on the cloud.

Software Engineer
ITstrategen GmbH

📅 Apr 2017 – Present ⚲ Karlsruhe,Germany

- Backend development for various web projects (e.g. CustomerPortal, Webshop, Flight Booking, ...) in a small scrum team.
- Team member of a funding project. Developing a social media application from scratch. The main task is to provide and implement an access control solution based on ABAC and ReBAC for web applications.

Working Student
iC Consult GmbH

📅 Okt 2016 – Apr 2017 ⚲ Stuttgart,Germany

- Close collaboration with team members to plan, design and develop a robust API management solution with Apigee for an automotive company.
- Improving scalability for infrastructure and data-driven orchestration in a server cluster.

ACHIEVEMENTS

- Winner at DEEPTECH:AI Deep Learning Hackathon
- 3rd place at Deep Learning for Computer Vision University Challenge
- 2nd place in "Person Detection" Challenge with Deep Convolutional Neural Networks
- Placed in top 5% in "Image Classification" Challenge at Facebook PyTorch Challenge Scholarship

SKILLS

Java, Python, PHP
Pytorch, Spring Boot, Spring Security
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EDUCATION / COURSES

Facebook PyTorch Challenge
Udacity Scholarship

📅 Nov 2018 – Jan 2019

Deep Learning Specialization
Coursera

📅 Apr 2018 – Jul 2018

Master of Computer Science
Karlsruhe Institute of Technology

📅 Apr 2017 – Apr 2019

Bachelor of Computer Science
Karlsruhe Institute of Technology

📅 Okt 2013 – Apr 2017

Bachelor of Computational Engineering Sciences
Technical University Berlin

📅 Okt 2010 – Sep 2013

PROJECTS

Vulnerability Detection in Web Applications

- Developed machine learning methods to eliminate false positives and minimize the labor of penetration testers in a continuous security testing pipeline.
- The model reduced 89% of all false positives by using input fuzzing.

Person Detector in Images

- Developed, modified and implemented robust object tracker by combining motion and appearance information to learn deep association metrics.

Anomaly detection using Auto-Encoders

- Developed a model that identifies unusual patterns in server log data and user behavior.

A Machine Learning Approach to Predict Manufacturing Steps

- Developed an LSTM based model to forecast and detect outlier from gps sensor data and predict next steps in a manufacturing pipeline for a industry product.