NICOLAS STELLWAG

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EDUCATION

Technical University of Munich (TUM) April 2023 - Present
M.Sc. Informatics (Computer Science) *Munich, BY, DE*

- Relevant courses: Advanced Deep Learning for Computer Vision: Visual Computing, Machine Learning for Graphs and Sequential Data, Advanced Machine Learning: Deep Generative Models, Natural Language Processing

Friedrich-Alexander University Erlangen-Nuremberg (FAU) October 2019 - April 2023
B.Sc. Computer Science *Erlangen, BY, DE*

- GPA: 1.5 (German grading system)
- Thesis: Projection Domain Metal Segmentation With Iterative Epipolar Consistency (Grade: 1.0)

Chamber of Commerce and Industry Nuremberg (IHK) September 2018 - July 2021
Computer Science Expert - Subject Area: System Integration *Nuremberg, BY, DE*

- Completed as part of the dual study program with DATEV eG

Gymnasium Hilpoltstein May 2018
High School Diploma [Abitur] *Hilpoltstein, BY, DE*

EXPERIENCE

Siemens Healthcare GmbH (Siemens Healthineers) June 2023 - October 2023
Working Student in Machine Learning - Team: Image Processing Algorithms *Erlangen, BY, DE*

- Continuation of bachelor's thesis project (see below)
- Creation of complementary training data using CT physics simulation

Siemens Healthcare GmbH (Siemens Healthineers) December 2022 - April 2023
Bachelor's Thesis with FAU Pattern Recognition Lab - Team: Image Processing Algorithms *Erlangen, BY, DE*

- Trained and evaluated deep learning model that segments metal in CT projection images for metal artifact reduction
- Introduced novel methodology that iteratively improves epipolar consistency of model predictions for different projections
- Main learnings: PyTorch, Evaluation of statistical classifiers, Semantic segmentation with U-Nets, CT basics

Siemens Healthcare GmbH (Siemens Healthineers) July 2022 - November 2022
Working Student in Software Engineering - Team: Image Processing Algorithms *Erlangen, BY, DE*

- Researched possible ways of implementing python bindings for CERA C++ software library
- Implemented image reconstruction demo applications for CERA C++ software library
- Main learnings: Python, C++, Image reconstruction basics, Python/C API basics

DATEV eG September 2018 - June 2022
Dual Study Program [Verbundstudium] - Team: Quality Management *Nuremberg, BY, DE*

- Completed dual vocational training [Duale Ausbildung] while pursuing bachelor's degree
- Responsible for implementation and support of an internal tool for software tests used by all on-premises product teams
- Main learnings: Collaborative working on big software projects, Managing and prioritizing customer requests, C#

SKILLS & CERTIFICATES

Languages	German (native), English (fluent)
Programming Languages	Python, C++, SQL, C#, Java
Data Science & Machine Learning	PyTorch (Lightning, DDP), NumPy, Matplotlib