

# Samuel Gende

International Computer Science Student

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## EXPERIENCE

### Fraunhofer IML, Dortmund – Student Research Assistant

April 2023 - Current

**Technical Skills:** Machine Learning, Relational Database Design, API Design, Angular Web Development, Python OOP

Currently building a full stack application for applied Machine Learning research. I started the project by reviewing the scientific literature about using Reinforcement Learning for scheduling. Then moved on to implementation and optimization of training models. The applications backend uses RL implemented with multiple python libraries such as TensorFlow to create a fair and ergonomic schedule for warehouse workers.

### SkyGen USA, Milwaukee— Software Development Intern

June 2021 - August 2021

**Technical Skills:** Angular Web Development, Typescript, Github, Agile Development

My main project was the localization of a client's shopping portal. Which was built with the angular framework. After learning about how the angular framework functions, I was able to use various libraries to make the localization as client friendly and configurable as possible. This also gave me experience working on a large scale software development project with multiple development teams working on the same codebase.

### MNIST Identification, Dortmund— Personal Project

June 2021 - August 2021

**Technical Skills:** Python, Pytorch

Implemented a Convolutional Neural Network to identify digits in the MNIST dataset. I gained a basic understanding for pytorch and how to implement CNNs

## EDUCATION

### Technische Universität Dortmund,— BS. Computer Science

October 2021 - August 2024 GPA: 2.5 (German Scale)

Enterprise Computing: AI in Management

Introduction to Computational Intelligence

Probabilistic Reasoning and Machine Learning (Winter 2023)

### Milwaukee School of Engineering,— Early College Credit

September 2020 - May 2021 GPA: 4.0 (US Scale)

Software Development I & II

## SKILLS

Git/ Github

Machine Learning

Research Experience

## LANGUAGES & FRAMEWORKS

Java

German (C1)

English (Mother Tongue)

Typescript

Angular

Python

## AWARDS

MSOE Honor Role

Valedictorian