

# Chien Liu

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## Professional Summary

**MLOps Engineer** with 2+ years of experience, developing and optimizing scalable ML pipelines. I genuinely enjoy the process of investigating and solving complex problems for my team. While at Aignostics, I led a pipeline migration that cut model training time by **50%**. At NIO, I saved my team over **10 hours** of manual QA effort per week by designing a full-stack leaderboard website to automate evaluations for speech-to-text models. My core expertise includes Python, PyTorch, and TensorFlow, along with a deep focus on cloud platforms, containerization & orchestration, ML lifecycle management, and CI/CD best practices.

## Work Experience

**Jul 2024 - MLOps Engineer** | Aignostics, Berlin

- Present**
- Reduced 50% of model training time and cost via cloud infrastructure optimization and algorithmic improvements.
  - Developed an AI platform on Kubernetes for drug development, saving the data scientist team over 18 hours per day.
  - Accelerated CI/CD workflows by reducing 90% of Docker image build time while preserving all functionalities.

**Dec 2023 - Software Engineer Intern** | NIO, Berlin

- May 2024**
- Eliminated 10 hours of manual QA effort per week by engineering a full-stack automated testing leaderboard.
  - Improved speech-to-text accuracy by 35% relative to Microsoft's solution by redesigning the model training strategy.

**Apr 2021 - Software Engineer Intern** | Teraki, Berlin

- Sep 2021**
- Accelerated the radar data pipeline by 10 times by rewriting the bottleneck from Python to C++.

**2018 - Machine Learning Research Assistant** | National Tsing-Hua University, Taiwan

- 2020**
- Contributed to papers published at [CVPR](#) and [ICML](#) workshops by designing training pipelines and ML models.

## Education

2020 - 2023 **M.Sc., Computational Science and Engineering** (GPA 1.7)

University of Rostock, Germany

- Completed master's thesis in collaboration with IBM, researching on detecting malicious events on PostgreSQL databases.

## Skills

### Project Management

- Stakeholder communication
- Agile & Scrum methodologies
- Time management
- Risk management

### Programming Language

- Python
- C++
- JavaScript
- Bash

### MLOps

- Google Cloud Platform (GCP)
- Amazon Web Services (AWS)
- Kubernetes / Helm
- Prometheus / Grafana
- MLflow / Weights & Biases
- AirFlow
- PostgreSQL
- Docker
- GitLab Actions

## Side Project

- [AI Face Generation](#) - Developed and published a command-line tool on PyPI for generating synthetic digital faces.
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