

# Luis Kaiser

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## Education

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**University of Texas at Austin - Exchange in Computer Science**

**Aug 2021 - Present**

**Courses:** Applied Analysis, Statistics, Computer Vision, Speech Recognition, Neural Networks, NLP, Algorithms

**University of Wuerzburg and Technical University of Munich**

**Aug 2023**

- MS in Mathematics and Computer Science
- BS in Mathematics and Computer Science, Magna Cum Laude, top 5% of class
- Erasmus Exchange in Data Science at the NHH Bergen, Norway

## Skills

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Languages: Proficient in Python; Intermediate in Java and Matlab

Technologies: Pytorch, Pandas, Tensorflow, Bash, Git, Docker, Kubernetes, MySQL, Azure Databricks & ML, Unix

## Experience and Research

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**Cosmo Consult**

**Nov 2019 - Jan 2021**

Software Engineering Intern, Wuerzburg, BA

- Created and presented tutorials for 70+ programmers about AI and Data Science to enable transition to Python
- Built Machine Learning algorithms to increase logistic efficiency by 18% by forecasting workload of 400+ workers
- Designed discounting strategies by using multi-agent Reinforcement Learning increasing profit over 15%
- Implemented predictive data model and set up database to cut personnel planning expenses by revamping workflows

**KPMG**

**Feb 2020 - May 2020**

Data Analyst Intern, Munich, BA

- Created actuarial algorithms to automate cashflow analysis of 5 international insurances using VBA and Python
- Built adaptive algorithms to automate HR management tasks by generating 50+ financial report summaries weekly
- Optimized performance and explanatory value of a BI dashboard by restructuring the database with MySQL

**Data Science Lab**

**May 2019 - Feb 2020**

Research and Lecture Assistant, Wuerzburg, BA

- Built NALU neural networks for the project Deep Scan, placing among the best classifiers for the IEEE-CIS dataset
- Generated 20,000+ variants of fraudulent data to set up training data for SAP, Oracle ERP systems and PaySim
- Created and automated database update and encryption to ensure data protection using SHA-256 and AWS
- Developed and held lectures and graded assignments in Algorithms and Data Structures in Java

## Projects

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**AI Gaming Agent**

Created an ice hockey agent using Pytorch, placed top 5% in class

**NeuroTrader Thesis**

Built and studied Deep Reinforcement Learning agents using Tensorflow and Kubernetes

**AdaBoost Classifier**

Implemented AdaBoosting method to classify CIFAR-10 dataset in Matlab

## Leadership and Awards

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- **Partnership Scholarship** from the University of Texas at Austin for top 5/200 based on academic success
- **E-fellows Scholarship** for 30/700 high-achieving talents based on leadership and career potential
- **Intramural Soccer Captain**, part of the UT Men's Soccer team and State Soccer Finalist 2020
- Ranked 3<sup>rd</sup>/64 at a **Youth Cup Championship** as a soccer coach
- 20-month **Leadership Development Program** for top-performing, communicative student mentors