# Cameron Laedtke

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## EDUCATION

**Bachelor of Physics**                                          May 2021
College of Science and Engineering, University of Minnesota - Twin Cities                    Minneapolis, MN
GPA: 3.4
Coursework includes
- Programming: Algorithms and Data Structures, Data Mining, Computer Vision, Computational Physics
- Math: Calculus I, II, III, and IV, Mathematical Methods for Physicists, Number Theory and Cryptography
- Physics: Quantum Mechanics, Electricity and Magnetism, Statistical and Thermal Physics

**Study Abroad**: IES Abroad EU Summer Program                    May 2019- August 2019
- Studied conflict, development, and security dynamics in Eastern Europe                    Freiburg, Germany

## SKILLS

**Programming/Software:** Python, Matlab, Java, R, SQL. TensorFlow, Scikit-learn, Dash, Docker, git, AWS, GCP
**Foreign Language Skills:** Fluent in French

## WORK EXPERIENCE

**Data Science and Machine Learning Intern**
Seagate Technology, Bloomington, MN                              May 2020 - May 2021
- Focused on research and implementation of machine learning / deep learning technologies for defect detection in recording head images and diagnosing failures in manufacturing processes
- Created a general-purpose active learning dashboard, allowing for subject matter experts to create new labeled image segmentation datasets in an automated fashion that leverages supervised and unsupervised methods to eliminate tedious work.
- Conducted research and experimentation on different specialized AI training hardware to optimize training speed and performance.

**Data Science Summer Intern**
ThreeBridge Solutions, Eden Prairie, MN                          June 2017 - August 2018
- Automated file transfer processes as well as the generation of reports, charts, and data sheets to eliminate tedious work
- Created programs to acquire and wrangle data from different sources on an ad hoc basis to assist in development of reports for clients
- Developed an interactive dashboard to visualize client data

## PROJECTS

**Reddit Sentiment Analysis, Personal Project**                  2018-2020
- Created program that scrapes user posts and comments from a specified subreddit (internet forum), and produces metrics and visualizations to gauge overall sentiment towards a specified topic
- Used scraped comments to train a transformer-based chatbot

## ACTIVITIES

**Member, UMN Small Satellite Project**                          September 2019 - March 2021
- Collaborate with the detector design sub-team to design, assemble, test, troubleshoot, and characterize a scintillator detector in order to study energetic and eruptive events on the solar surface