

Eric Hedgren

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Education

Iowa State University - GPA 3.43

Graduation - May, 2025

Major - Computer Science

Minor - Data Science

Aug. 2021 - Present

Ames, IA

Technical Skills

Languages: Python, Java, R, C/C++, SQL

Developer Tools: Git, Jupyter Notebooks, VSCode, Eclipse, MySQL, AWS, Jenkins, JFrog

Frameworks and Libraries: Pandas, NumPy, Matplotlib, Seaborn, Stable Baselines, Tensorflow, Scikit-Learn, Shiny, Qt, Flatbuffers, Protobuffers

Experience

Student Robotics Engineer

John Deere

Jan. 2023 - Present

Urbandale, IA

- Developed a test analytics web app for developer to reduce time spent debugging
- Utilized SQL to query data from database, R and R Shiny to analyze and present data
- Set build timeouts in Jenkins to reduce AWS cost by \$10,000+, and automated the deletion of old builds
- Implemented Flatbuffers serialization library on embedded systems that are utilized for CVML on all of John Deere's tractors and construction equipment
- Reduced serialization and deserialization time of data, thus increasing efficiency of software

Cardinal Space Mining Club

Iowa State University

Sep. 2022 - Dec. 2022

Ames, IA

- Competed in NASA Robotic Mining Competition to simulate mining the lunar surface
- Automated robot to mine and navigate obstacles via LiDar scanner to visualize surroundings
- Collaborated with 12+ team members to brainstorm solutions for autonomy problems by exchanging programs over Git

IT Summer Intern

Tri-City Electric Co.

May 2021 - Aug. 2022

Davenport, IA

- Supplied software and hardware needs for 100+ employees
- Led the installation of Remarcable to inventorize and improve tracking of all equipment, maintaining upkeep of 1,200+ devices

Projects

Lunar Lander - Hackathon

Python, Tensorflow, Stable Baselines, Jupyter Notebooks

July 2022

- Landed a lunar lander between two flags by controlling the force exerted by each booster
- Utilized reinforcement learning through the Stable Baselines library

Ames Housing Price Predictions

Python, Tensorflow, Scikit-Learn, Pandas, NumPy, Jupyter Notebooks

May 2022

- Created a program to clean dataset of Ames Housing information of incomplete/duplicated data
- Organized the dataset based on selected attributes and found correlations with prices using Feature Engineering
- Trained machine learning model to accurately predict prices based on attributes and correlations found