

Ina Edstrom

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PROFESSIONAL SUMMARY

An aspiring machine learning software engineer and pole vault national champion with 3 years of AI research work experience. Proficient in Python, SQL, and C#. Passionate about developing machine learning solutions to improve efficiency and accuracy.

EDUCATION

University of South Alabama Mobile, AL
Master of Science in Computer Science 4.00 GPA
Bachelor of Science in Computer Science, Minor in Mathematics, Certification in Artificial Intelligence 3.91 GPA

EXPERIENCE

Machine Learning Graduate Researcher | *Department of Defense Project* Mobile, AL | Sep. 2022 – Dec. 2024

- Implemented a computer vision convolutional neural network with Tensorflow to classify video frames
- Developed a video classification method with Python to classify the video based on the highest percent of classified frames
- Increased video classification accuracy from binary to multi-category by 33%

Automation Researcher | *Counterfeit Chip Detection Project* Mobile, AL | Sep. 2021 – Jul. 2022

- Created an automated, stable test environment for Multi-Objective Counterfeit Circuit Detection
- Improved data recording efficiency by 86% by automating data collection and visualization in Python
- Reduced voltage measurement error by 80% for 12 Intel and Yamaha circuit combinations
- Reduced temperature error by 26% by developing a safe automated system to use in an incubator
- Trained the team to use the automated test environment that improved experiment speed by 8.5x
- Published paper - 2022 IEEE Symposium Series on Computational Intelligence

Amazon Delivery Associate | *SMRT LogisTX INC.* Austin, TX | Feb. 2025 – Oct. 2025

- Delivered over 20,000 Amazon packages across North Austin with 92% route completion and safety compliance
- Received 500+ positive customer reviews for timely delivery and above and beyond service
- Led 12 rescues on under-performing drivers to improve team completion time

PROJECTS

AI-Driven Sport Technique (Thesis) | *Unity ML-Agents, C#, Python, and PyTorch* Aug. 2023 – Apr. 2026

- Developed an AI pole vaulter rag-doll agent that autonomously learned a new pole vaulting technique from scratch
- Engineered biomechanical efficiency through Proximal Policy Optimization (PPO) to break the world record by 50 cm

HEB Challenge TAMU Datathon 2025 Judge's Favorite | *Java, PostgreSQL, Docker, GitHub, Hugging Face* Nov. 2025

- Developed a product search using sparse and dense vector embeddings and reordering

NFL Data Warehouse | *SQL Server, Pentaho, Tableau, MySQL* Feb. 2024 – May. 2024

- Built a data warehouse, designed a star schema, and implemented ETL pipelines to integrate multiple data sources efficiently
- Developed OLAP operations and dashboards, enabling faster and more insightful data analysis for NFL analytics

Chicago Bus Tracker Website | *Python, Flask, Google Cloud, JavaScript, HTML, CSS, PHP* Aug. 2018 – Nov. 2023

- Developed a bus tracker website for the public busses in Chicago to show the route and where the bus on the way is
- Deployed a Python Flask server integrating Chicago's Bus Tracker and Google Maps APIs on Google Cloud
- Created the JavaScript client side to show the to and from bus map along with where that bus currently is by the minute

ACCOMPLISHMENTS

Graduate Student Spotlight | *School of Computing* Mar. 2024
Upcoming Senior of the Year | *Henderson Scholarship* Apr. 2022
Upsilon Pi Epsilon Honor Society Apr. 2022
3rd Place, Women's Pole Vault | *Sunbelt Indoor Track and Field Conference Meet* Mar. 2021
National Champion | *AAU Junior Olympic Female Pole Vault* Aug. 2017
Swedish ACTFL Writing and Oral Proficiency Certified Oct. 2016

TECHNICAL SKILLS

Languages: Python, C#, SQL Server, MySQL, PostgreSQL, C/C++, Java, HTML/CSS, R, JavaScript
Tools: Claude Code, Codex, PyCharm, VS Code, Git, Eclipse, Tableau, Vim, Hugging Face, Docker, Linux, Ubuntu
Libraries: TensorFlow, PyTorch, OpenCV, NumPy, Matplotlib, Pandas, Pillow