Scott Haakenson

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GitHub LinkedIn

EDUCATION

Michigan State University, College of Engineering East Lansing, Michigan
Bachelor of Science, Computer Science Expected Graduation: May 2026
GPA: 4.0/4.0 - Honors College

PROFESSIONAL EXPERIENCE

Schaeffler Group North America Troy, MI
Software Development Co-op August 2024 - Present

Schaeffler Group is a German-based automotive supplier with 120,000 employees worldwide.

Ford Motor Company Allen Park, MI
Product Development Intern May 2024 - August 2024

Ford Motor Company, a major American car company, is famous for putting America on wheels. Today, they are pioneers in the electric vehicle space.

- Developed machine learning algorithms to predict internal temperatures of high-voltage battery packs, enhancing accuracy and precision
- Applied Hyperparameter Optimization algorithms to a novel Physics-Informed Long Short-Term Memory (LSTM) model, optimizing performance through precise hyperparameter tuning
- Designed backend scripts for comprehensive data analysis from various high-voltage battery tests
- Enhanced the Graphical User Interface (GUI) of the data analysis tool, significantly improving user experience and usability

Michigan State University, CSE 331 East Lansing, Michigan
Undergraduate Learning Assistant January 2024 – May 2024

CSE 331 is the Data Structures and Algorithms Course at MSU taught by Professor Sebnam Onsay.

- Developed a project focused on Deques to foster learning for students
- Evaluated student-written algorithms for efficiency, correctness, and adherence to best practices

Native Projex, Inc Ho Chi Minh City, Vietnam
Backend Development Intern May 2023 - August 2023

Quirks.ai is a proof-of-concept app in development by Native Projex, Inc. The app's goal is to provide a trainable companion for each user that helps them explore the world the way that fits them best.

- Enhanced search accuracy from 60% to 80% by automating the processing and categorization of unstructured data to engineer a refined dataset to train a fine-tuned version of Microsoft's DeBERTa machine learning model
- Developed the dynamic sort algorithm as an integral component of a filtering and sorting search framework to provide customers with best matching within major cities in Southeast Asia
- Utilized new vector search techniques and an emerging vector database called Weaviate that enabled the capability to search 100,000s of places

SKILLS

Programming Languages: Python, C++, Java, PostgreSQL, GraphQL, HTML, CSS, C#
Technical Proficiencies: Git, Machine Learning

ORGANIZATIONS AND LEADERSHIP

MSU XR Club, Workshop Director - East Lansing, Michigan January 2024 – Present
MSU Powerlifting Club - East Lansing, Michigan August 2023 – December 2023
MSU Crew Club - East Lansing, Michigan September 2022 – May 2023