Aidan Andrews

AI & ML Researcher

Past Projects

DEVENEGARAI / AUGUST 2023 - NOVEMBER 2023

Full Stack AI/ML Engineer

DESIGNED AND EXECUTED ADVANCED MACHINE LEARNING ALGORITHMS, INCLUDING A SOPHISTICATED CONVOLUTIONAL NEURAL NETWORK (CNN), CRUCIAL FOR ACCURATELY PREDICTING HANDWRITTEN DEVANAGARI CHARACTERS, SIGNIFICANTLY ENHANCING THE FULL-STACK APPLICATION'S FUNCTIONALITY AND USER EXPERIENCE.

VOXAI / DECEMBER 2023 - FEBRUARY 2024

Sole Developer

ENGINEERED A LINUX-BASED NVIDIA JETSON-NANO POWERED AI LEARNING ASSISTANT. ADEPT AT TRANSCRIBING LECTURES, INTEGRATED WITH A LARGE LANGUAGE MODEL FOR ENHANCED STUDY SUPPORT, OPTIMIZED HARDWARE FOR SCREENLESS OPERATION.

VGG-19 / AUGUST - DECEMBER 2023

Researcher

RESEARCHED A VGG-19 CONVOLUTIONAL NEURAL NETWORK MODEL TO CLASSIFY PLANT SPECIES
IMPLEMENTED VGG-19 DEEP LEARNING ARCHITECTURE, TRANSFER LEARNING TECHNIQUES, AND A CUSTOM SEQUENTIAL CLASSIFIER WITH DENSE LAYERS

Current Project

CLIMATEPREDICT / MARCH 2024 - PRESENT

ML Engineer

CURRENTLY BUILDING AN LSTM IN RUST USING CANDLE TO DEVELOP AN APP THAT TAKES IN A CARBON EMITTING ACTION, DURATION, AND FREQUENCY. AND PREDICTS THE LOCAL CLIMATE EFFECTS OF THIS ACTION.

I AM AN AI AND ML ENTHUSIAST WITH A STRONG FOUNDATION IN PHYSICS AND COMPUTER SCIENCE, DEDICATED TO USING TECHNOLOGY FOR GLOBAL IMPROVEMENT. I AIM TO RESEARCH AND DEVELOP PRACTICAL SOLUTIONS TO REAL WORLD PROBLEMS.

CONTACT

+310-910-4721
AIDANSA2@ILLINOIS.EDU
AIDANANDREWS.INFO

EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN
BACHELORS OF PHYSICS MINOR IN COMPUTER ENGINEERING

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN
MASTER OF COMPUTER SCIENCE

SKILLS

- CNN'S
- TENSOR FLOW
- AI/ML APLICATIONS
- LINUX
- ALGORITHMS
- HARDWARE

COVER LETTER BY

AIDAN ANDREWS

AI/ML RESEARCHER

TO WHOM IT MAY CONCERN

I am excited to apply for the 2024 Summer Intern at Raytheon. My passion for technology and commitment to excellence have driven me to seek a position where I can contribute to achieving your technical objectives. My academic journey, marked by rigorous coursework and self-directed learning, has prepared me to tackle real-world challenges.

At the University of Illinois Urbana-Champaign, I undertook an intensive course load, surpassing the standard credit hours to delve deeper into computer science and engineering principles. My academic excellence, demonstrated by topping my class while managing a heavy workload, showcases my ability to learn and apply complex material swiftly.

Outside the classroom, I have honed my practical skills through diverse projects. For instance, I developed an NFC card reader connected to a linear actuator for a mechanical solution to door access, a task that required me to master new skills in coding, gearing, soldering, and 3D printing—all from my dorm room. These projects reflect my innovative approach and my ability to learn new technologies proactively, such as programming in unfamiliar languages and mastering 3D printing and circuit design independently.

My role as a tutor and staff member for two university courses underlines my belief in knowledge sharing and community growth. These experiences, coupled with my leadership in managing project teams, have equipped me with a robust set of skills to contribute to Company.

I am eager to blend my thirst for knowledge with the expertise at Raytheon, confident that together, we can address Raytheons challenges innovatively and effectively.

Thank you for considering my application. I look forward to the opportunity to discuss how my skills and experiences align with the goals of Raytheon.

AIDAN ANDREWS