

Simon Perryman

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EDUCATION

University of Michigan

Ann Arbor, MI

B.S.E Computer Science Engineering

June 2023

GPA: 3.724 /4.0

Coursework: Data Structures and Algorithms, Introduction to Computer Organization,
Foundations of Computer Science, Autonomous Robotics, Discrete Math, Calculus, Physics

ORGANIZATIONS

MHackers

Ann Arbor, MI

- Wrote machine learning algorithm to identify cases of Alzheimer's in fMRI scans using matrix transformations to identify pixel patterns on over 1000 training examples
- Established evaluation criteria for regression testing to minimize program error

Michigan Student Artificial Intelligence Laboratory

Ann Arbor, MI

- Researched fundamental principles of AI such as training methods, natural language processing, computer vision, deep learning, regression models and ethics

PROJECTS

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- Principal Component Analysis Facial Recognition Detection: machine learning algorithm that used matrix transformations to construct a set of eigenfaces for each person
 - Log File Text Classifier, Image Seam Carver, Traveling Salesperson, Priority Queue Classifier, Many backend implementations of common C++ data structures
 - Autonomous Robotics: Path Planning, PID Controller, Kinematic Robot

WORK EXPERIENCE

Invisible Fence Brand

Rochester, MI

Service Technician

May 2020 – August 2020

- Installed new equipment, troubleshoot control panel, repaired breaks in existing wire
- Oversaw operation and routine maintenance protocols to ensure optimal performance
- Led company with most individual positive Google reviews with over 60

Soul Cafe – Friendship Circle

West Bloomfield, MI

Server

May 2021 – August 2021

- Managed multiple tasks while monitoring dining room for optimal guest experience
- Increased restaurant sales through google advertisements and fundraising campaigns

Michigan Institute for Neurological Disorders

Farmington, MI

Medical Intern

January 2020 – June 2020

- Composed professional medical records, patient reports using Kareo Clinical software
- Conducted several steps of patient questioning, diagnosis, and administering treatment

Michigan Ear Institute

Royal Oak, MI

Medical Intern

January 2020 – June 2020

- Participated in professional patient care, diagnosis, and treatment
- Performed, analyzed, and categorized hearing test results to offer recommendations

SKILLS

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- C / C++
 - JavaScript
 - Machine/Assembly
 - HTML5
 - MATLAB