

Arthur Yang

yarthur@umich.edu • www.linkedin.com/in/arthur-yang-3084b6294 • 248-225-1911 • Ann Arbor, MI

EDUCATION

University of Michigan

Ann Arbor, MI

Bachelor Science In Engineering In Data Science

May 2025

GPA: 3.93 / 4.00

Coursework: Data Mining and Statistical Learning, Applied Regression, Machine Learning, Data Structures and Algorithms, Technical Communication for Engineering

Lawrence Technological University

West Bloomfield, MI

Dual Enrollment Credits for Multivariable Calculus and Differential Equations

June 2022

SKILLS

Programming Languages: Python, C, C++, R Studio, R, Arena Software, MATLAB, SQL

Data Analysis and Manipulation: Seaborn, Numpy, Pandas, ggplot2, Matplotlib, Sklearn, Tidyverse

Computer Skills: Visual Studio Code, Microsoft Office, Powerpoint, Word, GitHub, Linux, Pdflatex

PROJECT EXPERIENCE

First Aid On Site Foundation of America Intern

Detroit, MI

Project Manager

May 2023 - August 2023

- Partnered with hospital administrators and clinicians to identify opportunities for registration process improvements such as centralizing procedures, optimizing worker utilization, and ensuring equitable patient distribution
- Led a student team in coordinating the development of an Arena flowchart that models two hospital registrar systems
- Proposed a successful and more efficient registration process saving \$1,000,000 annually in operation costs, in an ideal simulation with optimized workers

Breast Cancer Diagnosis Machine Learning Project

West Bloomfield, MI

Data Scientist

June 2020 - August 2020

- Performed a comprehensive principal component analysis using R Studio of a scaled feature matrix containing cell nuclei properties, deriving pivotal insights for the predictors used for the training model
- Implemented and optimized an ensemble machine learning algorithm, achieving outstanding predictive accuracy of 98.3% for classifying tumor types

RESEARCH EXPERIENCE

Spectral Clustering Algorithms and its Applications

Ann Arbor, MI

Research Assistant

November 2022 - January 2023

- Conducted in-depth research on various spectral clustering algorithms, delving into their theoretical foundations and practical implementations
- Demonstrated proficiency in applying Laplacian Matrices, Fielder Vectors, and Spectral Gaps for data analysis
- Effectively communicated complex concepts such as Graph Theory, Computer Vision, and Hierarchical Clustering to a team of Graduate Student Instructors and Professors in a clear and concise manner

WORK EXPERIENCE

University of Michigan Math Department

Ann Arbor, MI

Applied Linear Algebra Grader

January 2023 - Current

- Coordinated and led grader group responsible for 300 student's grades for an Applied Linear Algebra course
- Collaborated with Professors and Undergraduates to delegate comprehensive rubrics for each project and assignment
- Implemented creative grading strategies and provided constructive feedback to students, fostering a learning environment for academic growth and achievement

ACTIVITIES

Tau Beta Pi Engineering Honor Society

January 2024 – Current

Michigan Marching Band

August 2022 – Current