Jason Ye

5750 Limestone Dr. Troy, MI, 48085 * (248) 802-3054 * ye.jason12@gmail.com

PROFILE

Third year computer science student with interests in computer vision and machine learning. Proficient in C++, Python and MATLAB with experience in writing system design requirements. Searching for a software development internship.

EDUCATION AND NOTABLE CLASSES

UNIVERSITY OF MICHIGAN, COLLEGE OF ENGINEERING – ANN ARBOR, MI

Major: Computer Science | Minor: Statistics | GPA 3.781

- Dean's List for all semesters attended
- Anticipated graduation: May 2021

Current Courses: Operating Systems, Foundations of Computer Science, Computational Statistics

EECS 445 : INTRODUCTION TO MACHINE LEARNING

- Learned the algorithms and math involved in supervised learning, neural networks, regression and classification
- Optimized preliminary models such as convolutional neural networks and support vector machines to avoid overfitting
- Created models in Python with PyTorch and other libraries to recognize landmarks from vacation photos

EECS 281 : DATA STRUCTURES AND ALGORITHMS

- Improved personal flexibility with different types of data structures and the C++ standard library

PROFESSIONAL EXPERIENCE

LEAR CORPORATION – SOUTHFIELD, MI

Systems Engineering Intern, Summer 2019

- Designed and created system requirements for a physiological state and fidget sensing system installed in a seatback using model-based systems engineering
- Gained proficiency in Enterprise Architect and Rational DOORS tools
- Presented alternative electrical outlet, improving sustainability in the office and potentially saving 10% in electrical costs
- Provided 3800+ pounds of meals for people in need during a volunteer event

UNIVERSITY OF MICHIGAN ATHLETICS DEPARTMENT – ANN ARBOR, MI

Tutor, Winter 2019 - present

- Facilitated effective study habits and mastery in concepts to student athletes on introductory EECS classes

TROY FAMILY AQUATIC CENTER – TROY, MI

Lifeguard, Summer 2017

- Received American Red Cross Lifeguard certification and contributed to the prevention of dangerous incidents

ACTIVITIES / PROJECTS

MROVER – MICHIGAN MARS ROVER TEAM

Computer Vision Subteam, Fall 2018 - present

- Wrote in Python, OpenCV and C++ to create an obstacle detection algorithm for the University Rover Challenge
- Developed calibration programs to scale up vision depth measurements based on the environment
- Tested with a ZED camera to find scattered tennis balls using circle detection and machine learning

MICHIGAN BADMINTON TEAM
MICHIGAN CLUB SWIMMING (SWAM)

TECHNICAL SKILLS

- C++, C (Fluent)
- Python – PyTorch, sklearn, OpenCV (Intermediate)
- MATLAB (Intermediate)
- Java (Limited experience)