

# Lawrence Wang

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## Education

- University of Michigan**, Ann Arbor, MI **August 2020 – December 2023** (Expected)
- Bachelor of Science (B.S.) in Computer Science; 3.89/4.0 GPA (University Honors)
  - Relevant Coursework: Data Structures and Algorithms, Computer Organization, Discrete Mathematics, Linear Algebra, Probability and Statistics, Multivariable and Vector Calculus

## Experience

- Consumers Energy**, Information Technology Intern, Jackson, MI **May 2021 – August 2021**
- Designed and architected a new reporting method for software deployments by integrating Microsoft System Center Configuration Manager (SCCM) and ServiceNow data through a script
  - Implemented a Python Script to collect and analyze through raw data to generate a final daily deployment report; utilized the Microsoft Power BI Platform to generate interactive visual dashboards
  - Approximately 90% decrease in the time it took to run the report to ultimately save 10 hours of manual data processing per deployment
- Wyzant**, Independent Tutor **December 2020 – May 2021**
- Taught the C++ language and programming concepts to introduce a brand new high school student to the computer science field
  - Designed lesson plans that consist of weekly lectures and practice programming assignments to help my student apply newly learned material and grasp key concepts efficiently

## Projects

- Autonomous Robotic Vehicle Team**, University of Michigan **August 2020 – Present**
- Sensors Subteam: Utilize C++ and Robot Operating System (ROS) to generate probability maps on the RViz visualization software using robot sensor data, ROS/Google Cartographer, and the Simultaneous Localization and Mapping (SLAM Algorithm) computation
- Personal Portfolio**, [www.lxwang.net](http://www.lxwang.net) **2020**
- Utilized HTML, CSS, and the Bootstrap framework to develop a static personal website
  - Redesigning new site to incorporate Typescript and the ReactJS framework to develop a more responsive site
- Euchre** **2021**
- Designed and developed a command line C++ implementation of the Euchre card game with up to 4 players
  - Incorporated object-oriented programming design, including inheritance and polymorphism, to allow functionality for both human players and AI bots to play the game

## Activities and Volunteer Work

- Montgomery EMS**, Volunteer Emergency Medical Technician, Belle Mead, NJ **February 2018 – Present**
- New Jersey Office of Emergency Medical Services Certified EMT
  - Respond to 911 emergency calls around Montgomery Township; coordinate responding crews; assess and provide prehospital care for our patients; transport and transfer patient care to local emergency departments
  - 1000+ on-duty hours; 225+ 911 call responses; Top Responder
- University of Michigan** **August 2020 – Present**
- University of Michigan Science Olympiad: Operations Officer
    - Collaborate with UMSO board to organize the annual Science Olympiad invitational hosted at the university
    - Manage the Operations Core to plan logistical components in advanced to ensure a smooth competition
  - Michigan Hackers: Web Development Core Member

## Skills

### Technical Skills:

Proficient with: Python · C++ · HTML/CSS · Git | Intermediate with: JavaScript · TypeScript · ReactJS · Java

### Soft Skills:

Organized · Collaborative · Determined · Communicative · Inquisitive

### Languages:

Fluent in English and Mandarin (working proficiency)