# Tory Yang

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## EDUCATION

**The Ohio State University**                                                                 Columbus, OH

*Bachelor of Science in Computer Science and Engineering (Honors); GPA: 3.8*        *Expected May 2026*

## SKILLS/COURSEWORK

**Languages**: Java, JavaScript, TypeScript, HTML/CSS, Python, C/C++, SQL, MATLAB, Swift, PHP, R
**Technologies**: Django, Node.js, Express.js, React, MongoDB, TensorFlow, Docker, Linux, Excel, CAD, Git, AWS
**Relevant Coursework**: Data Structures and Algorithms, Operating Systems, Web Design and Development, Computer Architecture, Artificial Intelligence, Software Engineering, Engineering Statistics, Cloud Computing

## EXPERIENCE

**The National Aeronautics and Space Administration (NASA)**               August 2024 – Present
*Software Engineer Intern*                                                                  *Cleveland, Ohio*
- Develop NASA's inventory management program for the International Space Station using **JavaScript**, **React**, and **Python/Django** to deliver responsive UIs and seamlessly integrate NASA's API and authentication system
- Restructure **MySQL** database architecture by implementing efficient indexing, normalization, and optimized queries, resulting in a **30%** increase in data entry efficiency and overall database performance
- Utilize **Postman** for API testing and **Docker** for containerized development, ensuring robust communication between front-end and back-end components while facilitating smooth deployment processes
- Collaborate with senior engineers to incorporate industry best practices in **CI/CD pipelines** using **Jenkins**, **GitLab**, and **Kubernetes**, ensuring continuous integration, delivery, and scalability

**Tender Care ABA**                                                                     May 2023 – Aug 2024
*IT Intern*                                                                                 *Cleveland, Ohio*
- Engineered and maintained the company website using **React**, **Redux**, and **HTML/CSS**, enhancing the user interface, optimizing site performance, and increasing web traffic by **25%**
- Integrated **RESTful APIs** to streamline data flow between the front-end and back-end systems, perform regular debugging and code optimization to ensure system reliability and responsiveness
- Monitored, serviced, and resolved technical issues, implementing preventive measures to avoid recurrent problems
- Optimized client acquisition and communication processes by automating workflow and improving user interaction

**Grade Potential**                                                                     May 2022 – Present
*STEM Tutor*                                                                               *Cleveland, Ohio*
- Developed tailored lesson plans with data-driven techniques and targeted exercises for weekly tutoring sessions, resulting in an average 15% improvement in student performance
- Applied individualized tutoring strategies by assessing students' strengths and weaknesses, enhancing problem-solving skills and increasing engagement in subjects like computer science and mathematics
- Cultivated strong relationships with students and parents, fostering a supportive learning environment

**Artificial Intelligence Club**                                                        August 2022 – Present
*Member*                                                                         *The Ohio State University*
- Created a facial emotion recognition app utilizing machine learning algorithms (**Keras/TensorFlow**) to accurately detect emotions from images
- Built and optimized predictive models for housing price analysis with **TensorFlow**, increasing forecasting accuracy by **18%** and refining the modeling process

## PROJECTS

**JPMorgan Code For Good 2023** | *MongoDB, Express, React, Node, Visual Studio Code, Git*        November 2023
- Collaborated with a team to develop a comprehensive **MERN** stack application benefiting Goodwill Columbus
- Integrated Full Stack components to promote Goodwill's program and stimulate real-time two-way communication
- Optimized performance through efficient code practices and responsive design techniques for various devices

**FEH Robot Competition** | *C/C++, VS Code, SOLIDWORKS, Machine Shop*        August 2022 – May 2023
- Engaged in team collaboration to engineer an autonomous robot capable of navigating a predefined course
- Constructed a physical and a virtual model utilizing **CAD** software to accurately simulate the robot's capability
- Utilized various methods and machine shop resources to optimize material usage, adhering to budget constraints