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 comprehensive facial emotion recognition app utilizing machine learning algorithms (**PyTorch**) to classify a wide range of emotions from images with high accuracy
- Built, optimized, and validated predictive models for housing price analysis using **TensorFlow**, increasing forecasting accuracy by **20%** and streamlining the data preprocessing and modeling workflows

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

- Programmed autonomous navigation algorithms in **C/C++** for real-time path correction and obstacle avoidance
- Designed and optimized robot components using **SOLIDWORKS**, ensuring structural integrity and functionality
- Integrated sensors and developed control logic, refining performance and responsiveness in dynamic environments