

Tory Yang

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EDUCATION

The Ohio State University

Bachelor of Science in Computer Science and Engineering (Honors); GPA: 3.8

Columbus, OH

Expected May 2026

SKILLS/COURSEWORK

Languages: Java, JavaScript, TypeScript, HTML/CSS, Python, C/C++, SQL/MySQL/PostgreSQL, MATLAB, Swift
Technologies: Django, Node.js, Express.js, React, MongoDB, TensorFlow, Docker, Linux, Jupyter, 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

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
- Cultivated strong relationships with students and parents through personalized and effective communication

The Ohio State University Club Tennis

August 2022 – Present

Financial Officer

The Ohio State University

- Developed financial models to project and manage a budget exceeding **\$10,000**, resulting in a **20%** increase in funds, improved expense management, optimized resource allocation, and reduced unnecessary expenditures
- Worked closely with board members on strategic planning, providing regular financial updates and facilitating discussions to promote fiscal responsibility and transparency

PROJECTS

Stock Market Predictor | *Python, TensorFlow, Keras, NumPy, Pandas, Matplotlib, scikit-learn Jupyter*

2024

- Stock trend predictor using **Python**, **TensorFlow**, and **Keras** with **pandas** and **NumPy** for data preprocessing
- Utilized **Matplotlib** for visualization and **scikit-learn** for model evaluation and cross-validation

Net2Connect | *JPMorgan Code For Good 2024 | React, Express.js, Next.js, Node.js, PostgreSQL, Git*

2024

- Built a full-stack app for Netcare Access to parse EHR/financial data with a query-based chatbot for data handling
- Created dashboards for tailored insights, report generation, and predictive analytics, boosting data accessibility

FEH Robot | *C/C++, VS Code, SOLIDWORKS, Machine Shop*

2022-2023

- 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