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/MySQL/PostgreSQL, MATLAB, Swift
Technologies: Django, Node.js, React, Redux, MongoDB, TensorFlow, Docker, Git, Jenkins, Kubernetes, 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*

- Developed front-end components for NASA's inventory management system using **JavaScript**, **React**, and **HTML/CSS**, creating responsive designs, intuitive interfaces, and elevated user experiences
- Implemented back-end features with **Python/Django**, including secure API integration and authentication systems, ensuring reliable communication and alignment with NASA's operational requirements
- Optimized **MySQL** database performance by implementing indexing, normalization, and query optimization strategies, achieving a **30%** improvement in query efficiency and data entry speed
- Managed and Enhanced CI/CD workflows with **GitLab**, **Jenkins**, **Docker**, and **Kubernetes**, enabling automated testing pipelines, scalable deployments, and seamless team integration for rapid feature delivery

Tender Care ABA — May 2023 – Aug 2024

IT Intern — *Cleveland, Ohio*

- Revamped the company website using **React**, **Redux**, and **HTML/CSS**, delivering an engaging, responsive interface that improved user interaction and increased web traffic by **25%**
- Developed interactive dashboards to present real-time metrics, integrating **RESTful APIs** for fluid data exchange, enhancing decision-making and visibility of operational insights
- Automated onboarding workflows and conducted system optimizations through debugging and preventive maintenance, streamlining daily processes and reducing recurring technical issues

Grade Potential — May 2022 – Present

STEM Tutor — *Cleveland, Ohio*

- Designed tailored lesson plans with data-driven methods, leading to a **15%** improvement in student performance
- Fostered academic growth and trust through personalized and effective communication with students and parents

The Ohio State University Club Tennis — August 2022 – Present

Financial Officer — *Columbus, Ohio*

- Built 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
- Collaborated with board members to implement fiscal policies and provide transparent financial reporting

Projects

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

- Engineered a full-stack application for Netcare Access using **React**, **Node.js**, **Express.js**, and **PostgreSQL**, incorporating a query-based chatbot to parse EHR and financial data for seamless data management
- Created dashboards for tailored insights, report generation, and predictive analytics, boosting data accessibility

Stock Market Predictor | *Python, TensorFlow, Keras, NumPy, Pandas, Matplotlib, scikit-learn Jupyter* — 2024

- Developed a stock trend prediction model using **Python**, **TensorFlow**, and **Keras** with **pandas** and **NumPy**, leveraging machine learning and historical data to accurately identify market trends and make informed insights
- Utilized **Matplotlib** for data visualization and **scikit-learn** for model evaluation and cross-validation

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 tested structural components with **SOLIDWORKS**, ensuring durability and optimal performance