

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 Dec 2026

- **Coursework:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Object-Oriented Programming

SKILLS/CERTIFICATIONS

Languages: Java, JavaScript, TypeScript, HTML, CSS, Python, C/C++, SQL, MATLAB, Swift, Ruby, x86 Assembly

Libraries/Frameworks: React, Node.js, Spring, Apache Spark, Django, Flask, NumPy, Pandas, JUnit, PyTorch, Ruby on Rails

Tech: MySQL, AWS, Terraform, Databricks, Docker, Kubernetes, Jenkins, Spinnaker, Git, Postman, Linux, Jira, Agile

Licenses/Certifications: AWS Cloud Practitioner

EXPERIENCE

JPMorganChase

June 2025 – Aug 2025

Software Engineer Intern

- Refined data models in a **Spring Boot** microservice, consolidating **50+** tables and improving query performance by **30%**.
- Built **6 AWS/Spark** ETL pipelines for **47+** data feeds with **99%** accuracy, increasing throughput and cutting costs **40%**.
- Created **FastAPI/Swagger/Postman** dashboards to visualize **S3** data and pipeline metrics, improving developer workflow.
- Remediated **5** infrastructure vulnerabilities (FARM) by upgrading **AWS Terraform** modules, enhancing platform security.

The National Aeronautics and Space Administration (NASA)

August 2024 – December 2024

Software Engineer Intern

- Reconstructed NASA's inventory management system using **React/Javascript/HTML** and **Python/Django**, adding role-based authentication, data visualization dashboards, optimized inventory pipelines, and improved operational efficiency.
- Optimized **MySQL** database performance via indexing and normalization, boosting query and data-entry efficiency **65%**.
- Streamlined CI/CD workflows using **GitLab**, **Docker**, and **Kubernetes** to automate tests and enable scalable deployments.
- Programmed **11** interactive simulation modules to create real-time visualizations for STEM outreach and internal operations.

Tender Care ABA

May 2023 – Aug 2024

IT Intern

- Revamped website with **React**, **Redux**, and **HTML/CSS**, improving user interaction and increasing web traffic by **110%**.
- Developed interactive dashboards to present real-time metrics, integrating **RESTful APIs** for fluid data exchange.
- Automated onboarding and maintenance tasks with custom scripts, streamlining processes and reducing technical issues.

Ohio State University Department of Computer Science and Engineering

August 2025 – Present

CSE 3901 Undergraduate Teaching Assistant

- Mentored **50+** students in developing full-stack applications using **Javascript (React)**, **Ruby on Rails**, and **MVC** design.
- Evaluated project milestones for code quality and design, leading lab sessions on version control (**Git**) and automated testing.

Grade Potential

May 2022 – Present

STEM Tutor

- Designed tailored lesson plans using data-driven methods, improving student performance and engagement by **40%**.
- Fostered academic growth by communicating personalized feedback, progress reports, and goals to students and parents.

The Ohio State University Club Tennis

August 2022 – Present

Financial Officer

- Created financial models managing **\$12,000+**, boosting funds by **20%** through optimized allocations and reduced expenses.
- Collaborated with board members to implement fiscal policies and deliver detailed, transparent financial reports.

PROJECTS

ClarifY | HackMIT 2025 | Python, FastAPI, React, Claude, Manim, Modal, Git, LangGraph, Pytest

2025 - Present

- Engineered an generative AI platform to convert PDF notes into animated videos using **11 specialized agents (Claude)**.
- Utilized **Manim** for complex mathematical animations, deployed on **Modal** for auto-scaling, and validated with **128+ tests**.

InstaSnap | React, Redux, Chakra UI, Tailwind CSS, Java Spring Boot, MySQL, Git

2024 – Present

- Develop a full-stack social media platform inspired by Instagram using **React**, **Spring Boot**, and **MySQL**.
- Integrate authentication, media-upload pipelines, profile management, and a real-time feed for seamless user engagement.

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

2022 – 2023

- Implemented autonomous navigation algorithms in **C/C++** for real-time path correction and obstacle avoidance.
- Crafted and tested structural components with **SOLIDWORKS**, ensuring durability and optimal performance.