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*

- **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 May 2025 – Present
Software Engineer Intern

- Refine data models in a **Spring Boot** microservice, consolidating **50+** tables and improving query performance by **30%**
- Build **6 AWS/Spark** ETL pipelines for **47+** data feeds with **99%** accuracy, increasing throughput and cutting costs **40%**
- Create a **FastAPI/Swagger/Postman** dashboard to visualize **S3** data and pipeline metrics, improving developer workflow
- Formulate a weighted recommendation algorithm to optimize credit-card selection based on cashback, offers, and utilization

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

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

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

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

- Engineered a full-stack web app for Netcare Access, featuring a query-based chatbot to parse EHR and financial data
- Constructed dashboards for tailored insights, report generation, and predictive analytics, enhancing data accessibility

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