

# Tian(Maxwell) Yang

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## Education

**New York University**, Tandon School of Engineering, Brooklyn, NY

Sep 2019-Dec 2022

Bachelor of Science, Computer Science, **GPA: 3.902**

Relevant Coursework: *Introduction to Data Structures and Algorithm(A)*, *Object-Oriented Programming(A-)*, *Introduction to Databases(A)*, *Computer Architecture and Organization(A)*, *Introduction to Algorithms(A)*, *Computer Networking(A)*, *Introduction to Operating Systems(A)*, *Computer Security(A)*, *Network Security(A)*, *Design and Implementation of Programming Languages(A)*, *Software Engineering(A-)*, *Introduction to Parallel & Distributed Systems(A)*, *Penetration Testing and Vulnerability Analysis(A-)*, *Design Project(A)*, *Introduction to Machine Learning(A)*

## Skills

**Programming Languages:** Python, Javascript, C, Go, Lua, Shell

**Other:** Flask, Fastapi, SQLAlchemy, React.js, MySQL, SQLite, PostgreSQL, Git, Unity3D

**Language:** English, Mandarin

## Experience

**Software Engineer Internship:** Meta Platforms Inc., Menlo Park, CA

May 2022-Aug 2022

- Worked in Instagram Demand & Efficiency Management Team, who monitors various metrics of Instagram's backend and triages anomalies to specific engineers or teams who are responsible
- Implemented new functionalities for internal tools that monitor Instagram's backend
- Worked with other engineers to optimize pruning algorithms that prune redundant regression incidents

**Research Assistant:** New York University, College of Art and Science, New York, NY

March 2022-Present

- Research & Develop an automated feedback system for Computer Networking class assignments
- Aim to expand this system to all computer science assignments

**Teaching Assistant:** New York University, Tandon School of Engineering, New York, NY

Sep 2021-Dec 2021

- Assisted the professor in managing the *Introduction to Operating System* class with 115 students in it
- Collaborated with professor and other TAs to create assignments for students
- Answered students' questions online and hosted weekly office hours
- Graded assignments on a biweekly basis

**Software Engineer Intern:** Bombardier NUG, Technical Department, Changzhou, China

Jun 2021-Aug 2021

- Improved the logging system of the Automatic Train Control system used by movers from Bombardier NUG
- Devised a newly deployed Train Physical Health system written in Python

## Projects

**Debate It**, Leader, Scrum Master, Frontend Developer (Python, Javascript)

Sep 2021-May 2022

- Lead a group of 4 developers to develop a 1 vs 1 open debate platform called *Debate It*
- Host daily scrum meetings and weekly sprint planning meetings
- Implement the frontend with React.js and Bulma CSS
- Supervise the development of backend RESTful API, including coaching the backend team and reviewing their code

**Anubis Learning Management System**, [Repo](#), Collaborator (Python, Javascript)

Aug 2021-Present

- Contribute code to an open-source project called Anubis, an LMS for CS courses used by more than 500 students at NYU
- Researching, developing, and integrating a plagiarism detection tool to Anubis. [Repo](#)
- Collaborated with the maintainer to restructure the authorization hierarchy [#162](#)
- Implemented Github SSO [#259](#)

**Online Plane Ticket Booking System**, [Repo](#), Developer (Python)

May 2020-May 2020

- Developed an online plane ticket booking system with Python+Flask+Bootstrap with corresponding plugins
- Implemented flight lookup, single-trip, and round-trip booking, staff adding or changing flight information

**Chip-8 Emulator**, [Repo](#), Developer (Python)

Aug 2019-Aug 2019

- Developed the Chip-8 Emulator, a vintage game console, in Python
- Wrote a blog in Chinese explaining the technical details of this emulator

## Honors

**The Myron M. Rosenthal Computer Science Award**, Highest academic standing among computer science and engineering junior at NYU Tandon School of Engineering

May 2022

**ICPC**, Advanced from ICPC North America Qualifier to ICPC North America Division Championship

Mar 2021

**Google Hashcode Competition**, 1st place in the NYU hub

Feb 2020

**IEEEExtreme13.0 programming competition**, Rank: 720/2534

Sep 2019