

Jimmy Shong  
(650) 681-7291 • jimmysh341@gmail.com • <https://github.com/Jiminotor>

## **OBJECTIVE STATEMENT**

Computer Science undergraduate based in Palo Alto, CA with exceptional technical, collaborative, organizational, and research skills seeking a full-time software engineering or research position where I can devote myself to designing, developing, and testing machine learning applications and other software.

## **EDUCATION**

**New York University Tandon School of Engineering**, Brooklyn, NY Aug 2020-Present  
B.S. in Computer Science, Minor in Math and Cybersecurity, GPA: 3.774/4.0, Dean's List 2020-2023

## **EXPERIENCE**

**MIT HAN Lab**, Cambridge, MA May 2023-Present  
*Research Intern*

- Engineered a pipeline that allows voice interaction with LLMs running on edge devices using Whisper and Piper. The pipeline is used as a benchmarking tool for the lab's LLMs.
- Engineered optimization techniques for matrix multiplication to accelerate inference.

**BlueStamp Engineering**, Palo Alto, CA Jun 2022-Jul 2022  
*Instructor*

- Taught practices and principles of engineering to a class of twenty high school students.
- Demonstrated and presented engineering tools such as Arduino, Python, GitHub, and terminal.
- Led projects such as an intelligent door lock, a smart mirror, and Alexa home automation.

**NYU AI for Scientific Research**, Brooklyn, NY Aug 2021-May 2022  
*Unsupervised ML Lead*

- Engineered a ML pipeline to help analyze trajectories of macrophages in M0, M1, and M2 in four dimensions in a team for four, currently employed by researchers at the University of Groningen.
- Performed data visualization on sleep-wake dynamics of mice for scientists at NYU Abu Dhabi.

## **PROJECTS**

**TinyChatEngine (C++)** August 2023

- Developed a universal high-performance inference library designed for the efficient deployment of quantized large language models on edge devices.
- Engineered a speech-to-speech chatbot that performs real-time inference on user audio.

**Air Ticket Reservation System (Python, HTML)** December 2022

- Designed a database that stores information on all entities involved in an airport's operation.
- Implemented a web-based application so customers and staff can communicate with the database.

## **ADDITIONAL EXPERIENCE**

**NYU Polytechnic Tutoring Center**, Brooklyn, NY Jan 2023-Present  
*Computer Science Tutor*

- Helped NYU CS students with questions regarding required computer science courses.
- Recorded explanation videos for answer keys of mock exams developed by the PTC.

## **SKILLS**

Python, PyTorch, C++, C, Java, JavaScript, HTML, CSS, MySQL, GitHub, Linux, AWS, Agile, TDD