

# Tony Tong

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## Skills

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**Languages** Python, C++

**Packages** PyTorch, DGL, XGBoost, Sklearn, ROOT

**Tools** Cursor, Git, Bash,  $\text{\LaTeX}$

## Experience

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### SUNO

*Machine Learning Engineer*

Cambridge, MA

Aug 2023–present

- 1st hire @ SUNO.
- Lead **post-training, evaluation, inference performance optimization and monitoring, ML operations** for foundational audio generative models.

### Meta Platforms, Inc.

*Machine Learning Engineer*

Cambridge, MA

Aug 2022–Aug 2023

- Tech lead on accuracy workstream. Increased high-impact metric accuracy on novel devices by more than 50% through data-driven algorithm developments, which directly improved user sentiments.
- Collaborated with two engineering XFNs, Data Science and Project Managers, and set directions on novel features and data acquisition methods.
- Planned, executed, validated, and improved data collection experiments.
- Developed data simulation framework for continuous validation and development.

### Kensho Technologies

*Machine Learning Engineer*

Cambridge, MA

Oct 2018–Jul 2022

- Lead the document intelligence team's work and research planning, collaborating with 4 machine learning engineers on OCR, text ordering, and document layout analysis.
- Created and productionized a **novel graph-based deep learning model** for document layout analysis. Achieved state-of-the-art performance in classification and segmentation of documents with less than 10% of the computation cost.
- Combined the graph model with **natural language understanding** to create a key-value extraction tool.
- Productionized a **financial key-value extraction workflow** for broker research documents. The pipeline automatically extracts  $\sim 60\%$  of data with  $\sim 98\%$  precision.
- Built and deployed a **general-purpose synonym model** based on Wikipedia open data. The model powers the **text expansion** capability on search platforms daily.

## Education

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Harvard University, Ph.D. in Physics

Sep 2012–May 2018

California Institute of Technology, B.A. with honors in Physics

Sep 2008–Jun 2012