

# XUE DONGYI

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## 🎓 EDUCATION

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**Shanghai Jiao Tong University (SJTU)**, Shanghai, China 2012.9 – 2016.6

*Bachelor of Engineering* Major in Electronics Engineering (EE) from IEEE Honored Class.

**University of Tokyo (UTokyo)**, Tokyo, Japan 2016.10 – 2017.10

*Research student (Non-degree course)* Computer Science

## 👤 EXPERIENCE

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### Research

**SJTU Media Lab** Shanghai, China 2014 – 2016 (2 years)

*Undergraduate Researcher* Mentor: Prof. Song Li

- Mainly worked on video codecs and image processing
- Research on video quality assessment and codecs performance
- Design, develop software and conduct experiments to collect and analysis data

### Professional

**SBI BITS** Tokyo, Japan 2017.11 – 2018.7

*Machine Learning Engineer* Machine learning Team

- Machine learning algorithm development for financial application
- Software development: micro-service based system for model deployment

**PKSHA Technology Inc.** Tokyo, Japan 2018.8 – present

*Algorithm Engineer*

- Deep learning model development for computer vision application (face verification / object detection) for industrial use cases: manufacturing, public infrastructure, transportation, education
- Edge computation adoption / inference optimization (quantization, model pruning, NV / Arm acceleration solution): Real time object detection on arm base SBCs.

### Others

- Long-term internship as computer vision engineer at start-up companies at Shanghai (Clever-M Robot) & Tokyo (LeapMind)
- Volunteer works for Shanghai International Marathon for 3 consecutive years

## 📁 PERSONAL PROJECT

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**TensorFlow Speech Recognition Challenge** on kaggle.com 2018

- Speech commands recognition competition held by Google Brain
- Ranked 50th out of 1315 teams / 1593 competitors (Silver Metal / top 4%)
- Build the system with CNN & RNN and coded with Tensorflow / Keras
- Open sourced at <https://github.com/PhilipXue/TF-CRNN-kaggle-voice-competition>

## ⚙️ SKILLS

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- Programming Languages: Python (full professional proficiency) C++/Java/Matlab (limited professional proficiency)
- Deep Learning framework: Tensorflow / Keras / Pytorch
- Computer Vision / Image Processing / Machine Learning
- Software development skills: Git, Docker, Unix bash, CI/CD tools

## **i LANGUAGE**

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- Mandarin: Native
- English: Full Professional proficiency
- Japanese: Fluent (JLPT N1 certificated)

## **♡ INTEREST&HOBBIES**

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- Amateur photography
- Digital gadgets
- Sports