

# FAGANG JIN

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## EDUCATION

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**Central South University (CSU)**, Changsha, China 2015 – 2018

*Master student in Control Science and Engineering (CSE), GPA 3.9/4.0, top 1%*

**Central South University (CSU)**, Changsha, China 2011 – 2015

*B.S. in Automotive Engineering (AE), top 1%*

## PROFESSIONAL EXPERIENCES

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**Tencent** Shenzhen, China 2021 – Present

*Senior Multi-Modal Algorithm Engineer:* PCG & AILab T9-T10

Achievements:

- Lead team achieved 75.9 score on MMBench CN, surpassed QwenVL-Max and Yi-34B-VL with only 14B parameters, stands as the SOTA among open-source MLLMs in the Bumblebee series.
- Developed an AI sys for post-production in Tencent Video's variety shows. Utilizing ASR, voice matching, and multi-modal, prompted efficiency by 300% and reduced costs by 2x.
- Obtained two patents and one paper during work.
- Contributed a NPC action generating model (PFNN) into Honor of Kings World game - the next big thing to Honor of Kings, reducing 30% human efforts in game production by collaborated with IEG colleagues.

**AutoX** Shenzhen, China July. 2018 – 2021

*Senior Perception Algorithm Engineer:* Tech Lead of Data team & Member of DL

Achievements:

- Developed the first onboard real-time implementation of MaskRCNN in China.
- Led a team of 30 members in data annotation, contributing over 1000M CV and 3D lidar data. Supported more than 5 AI tasks and achieved a 10% boost in MPI (miles per human intervention) by iterating models on massive datasets.
- Developed AutoTrain system, integrated data collection, label, and training using Active Learning. Improved efficiency by 150% in large-scale automated training for autonomous driving scenarios.

## RESEARCH PROJECTS

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**Video Understanding** Shenzhen, China 2024 – Present

- Image model beats closed models with 14B params and only 576 tokens per img.
- Light model with 7B models surpassed OmniLLM12B from BAAI with only 114 tokens per img.

**YOLOv7 detection framework** Shenzhen, China 2021

- Supports Keypoints detection, Instance segmentation and detection in a single manner. 3K stars.

## SKILLS AND INTERESTS

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- Programming Languages: Python > C++ > Golang, DL Stack: Torch, Deepspeed, FSDP, LLM, multi-modal
- Fields: Computer Vision, MLLM, AGI, Embodied AI

## HONORS AND AWARDS

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*1<sup>st</sup> Prize* Magic Show program, Graduate Student Gala 2015

*1<sup>st</sup> Prize*, National Scholarship Jun. 2013

## MISCELLANEOUS

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- Blog: <http://lucasjinreal.github.io>, GitHub: <https://github.com/lucasjinreal>