Haoran Yuan

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Personal Summary

- 7 years of algorithm development in computer vision, deep learning, and 3D scene reconstruction.
- Product delivery with project management experience.
- Fluent in English and French, experienced in cross-cultural communication and collaboration.

Professional Skills

- Algorithms: Computer vision, computer graphics, 3D reconstruction (3DGS/4DGS), autonomous-driving, world models
- Programming: C/C++, Python, Linux, ROS, paper reading and prototyping
- Deep Learning: PyTorch, TensorFlow, Caffe; kernel optimization, quantization, compression, pruning, distillation
- Hardware Optimization: NPU, DSP, heterogeneous computing, computer architecture

Work Experience

Synkrotron Co., Ltd. | Algorithm Engineer / Team Lead

2022.02 - Present | Xi'an

- Lead algorithm team developing simulation models; confidence reached 99%, latency reduced by 50%
- Lead 3D/4DGS reconstrcution/simulation projects, cooperate with university and enterprise partnerships
- Lead synthetic-data product, humen-review pass rate 99%, data pipeline capacity 100K frames/day

SAIC AI Lab | Algorithm Engineer - Perception Team

2020.12 - 2022.02 | Shanghai

- SAIC Hongyan heavy-truck L2++ ADAS project; algorithm development, debugging, testing, and release workflow
- L2 autonomous-driving algorithms on Horizon SOC: lane detection, traffic-light recognition, vehicle recognition

Hikvision Digital Technology Co., Ltd. | Algorithm Engineer - Research Institute

2019.05 - 2020.11 | Hangzhou

- AI Device Open Platform V1.0.0/V1.2.0/V1.5.0 architecture: operator fusion, network optimization, operator replacement
- Code-generation tools to improve deployment efficiency with TVM
- Model quantization profiler; implemented HiSilicon DSP deconvolution operator used in company products

Education

ISAE-SUPAERO, France

M.S. in Decision and Data Sciences | 2016.09 - 2018.11 | Toulouse, France

- Airbus HQ internship: built an RL-based eVTOL dispatch system using New York City traffic heatmaps

Beihang University

M.S. in Aerospace Propulsion Theory and Engineering | 2014.09 - 2016.06 | Beijing

- University Second-Class Scholarship | School Football Team

Northwestern Polytechnical University

B.S. in Aircraft Power Engineering | 2010.09 - 2014.06 | Xi'an

- University Second-Class Scholarship | School Football Team