Alexander Roan

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Summary

Alexander Roan has a great skills over 15 years and high experiences on Computer Graphics, Vision and Artificial Intelligent Professional.
My experiences and field is Computer Vision and Graphics related:
- Computer Graphics
> High quality rendering quality
> Realtime Ray Tracing
Massive Rendering
Z-Fighting : Depth Partition, Reverse Depth
Accurate Rendering : Inverse Matrix Precalculation
Transparency : Depth Peeling
- CAD
> lightweight 2D/3D cad, BIM modeling architecture.
- Computer Vision
> Face landmark detection and gaze estimation
> Object detection in video
- Data Simulation and Visualization
> Solar System
> Euro Space Simulation Assistant
- Game Application
- Artificial Intelligent with Deep learning
> Convolutional Neural Network and Deep Learning.
> Prisma Styling of Image and Video using Deep Learning on mobile locally even.
> detection of object using CNN on mobile.
> Recognition People in a group using Deep learning
Object detection
Face recognition
Text extraction from natural image
Segmentation
Pose estimation Net
> Deep Fashion
> RCNN(Region CNN)
- Virtual Reality
- Augmented Reality with SLAM
- Cuda/OpenCL/Mobile Parallel Computing.

Development Skills:
- C/C++/C#/Java/Objective-C/Swift/CMake
- Cross Platform development including mobile and embedded even.
- OpenGL/DirectX, OpenCV, dlib, Torch, TensorFlow, Unity, WebGL/Javascript
- Python, Scripts based installation

Robust and Stable System Design:
- UML/RAISE based Big Software System rigorous design and validation.
- Petri-Net based Parallel System design detecting deadlock and data corruption.

Experience

Intern

VisionLab GmbH & Co. KG

Jul 2020 - Present (2 months +)

Software Engineer

Cesium Solutions

Sep 2015 - 2019 (4 years 4 months)

Software Developer

Cosomedia GmbH & Co. KG

Jun 2016 - Apr 2018 (1 year 11 months)

R&D in AR and Deep Learning

Self-Employed

Jul 2008 - Feb 2012 (3 years 8 months)

Skills

Augmented Reality (AR) • C++ • Deep Learning • Object-Oriented Programming (OOP) • Software Development •
Unified Modeling Language (UML) • Project Management • Leadership • Computer Vision • SLAM