

# Akhilesh Vijaykumar

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## EXPERIENCE

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### DreamWorks Animation L.L.C

*Technical Director*

Glendale, CA

*Jan 2022 - Present*

- Generalist TD on Unannounced Project
- Effects TD on **Kung Fu Panda 4**
- Character Effects TD on **Trolls Band Together**

### Electronic Arts Inc.

*Technical Artist Intern*

Orlando, FL

*Aug 2021 - Dec 2021*

- Developing procedural tools to simplify and speed-up Body workflows for Character Artists
- Scripting in the **Frostbite** engine using Python

### Texas A&M University

*Graduate Teaching Assistant*

College Station, TX

*Aug 2019 - May 2021*

- Teaching and grading assignments on Object-Oriented Programming Concepts in C++ and OpenGL
- Developing the TxGRAPH'2021 Conference website using HTML5, CSS3 and jQuery
- Grading assignments for The Digital Image and Image Synthesis

## TECHNICAL SKILLS

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**Languages:** Python, MEL, C++, C#, C, Java, SQL, GLSL/HLSL

**Web Technologies:** HTML5, CSS3, PHP, JavaScript, AJAX, jQuery, TypeScript

**Libraries:** OpenGL, Tensorflow, PyTorch

**Softwares:** Maya, Houdini, UE4, Photoshop, AfterEffects, Unity, Substance Painter

**Certification:** NPTEL Online ELITE Certification in Introduction to Machine Learning from IIT Kharagpur

## PROJECTS

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### Independent Study - Deep Learning for Houdini

Spring 2021

- Trained AI models to predict real-valued parameters from images and use them to build procedural 3D models

### Mesh Grouping Tool in Houdini

Fall 2020

- A simple interface to form the closest possible, non-intersecting group of meshes, with randomized orientations

### Houdini Game Jam | Theme: Don't Panic

Fall 2020

- Worked in a team of 2 to make a game in Unity

### Animation Industry Course | Theme: Photorealism

Summer 2020

- Worked in a team of 5 to create a 30 second Animated short film in Maya
- Roles: Project Management, Modeling, Surfacing, FX and Lighting

### 3D Modeling and Animation | Secret of the Quokka

Fall 2019

- Worked in a team of 5 to create a 30 second Animated short film in Maya
- Roles: Modeling, Animation and Lighting

## EDUCATION

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### Texas A&M University

*Master of Science in Visualization ( GP A : 4.0 )*

College Station, TX

*Aug 2019 - Dec 2021*

### R N Shetty Institute of Technology

*Bachelor of Engineering in Information Science*

Bangalore, India

*Aug 2015 - Jul 2019*