

Annette Tongsak

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EDUCATION

Oregon State University , Corvallis, OR B.S. Computer Science - Applied Graphics Simulation & Game Programming	Anticipated Graduation: June 2026 GPA: 3.92
Relevant Coursework: Computer Graphics & Shaders, Linear Algebra, Parallel Programming, Operating Systems, Analysis of Algorithms, Deep Learning, Machine Learning, Software Engineering, Databases	

EXPERIENCE

Crowds Technical Director Intern <i>Pixar Animation Studios, Emeryville, CA</i>	June 2025 - August 2025
<ul style="list-style-type: none">Contributed to production shots in <i>Toy Story 5</i>, integrating large-scale crowd simulations and character animation assets into the final production workflowReduced manual setup time by ~90% by developing and deploying a Python automation tool using internal APIs to resolve a recurring crowds pipeline issue across production shotsSet up, simulated, and debugged large-scale crowd scenes, diagnosing animation and performance issues within the production pipelineBuilt looping character animation assets and added animator-accessible controls to support scalable crowd systems	
Pixar Undergraduate Program Technical Director Intern <i>Pixar Animation Studios, Emeryville, CA</i>	June 2024 - August 2024

Undergraduate Research Assistant <i>Oregon State University, Corvallis, OR</i>	June 2023 - May 2024
<ul style="list-style-type: none">Research assistant under Dr. Yue Zhang, focusing on computer graphics, data visualization, and machine learningCollaborated with a graduate student on a wildlife object detection model commissioned by the Oregon Department of Transportation, labeling images with bounding boxes using CVAT to prepare training dataDeveloped a convolutional neural network using PyTorch to classify handwritten digits from the MNIST dataset and diverse images from the CIFAR-10 dataset	

PROJECTS

Automatic Lip Sync Tool <i>Python, Blender API, Whisper</i>	January 2026 - Present
<ul style="list-style-type: none">Developing a Blender add-on to generate first-pass lip sync animation from audio, automating animation blocking and reducing manual keyframing through audio-to-phoneme alignment	
Random Cobweb Generator <i>C++, OpenGL</i>	December 2023

Random Cobweb Generator <i>C++, OpenGL</i>	December 2023
<ul style="list-style-type: none">Implemented a procedural cobweb generator in C++ and OpenGL, inspired by DreamWorks' 2011 paper "Building and Animating Cobwebs for Antique Sets"Applied mathematical modeling of catenary curves and parabolas to generate 3D web structures	

SKILLS

Programming Languages: C/C++, Python, JavaScript, SQL, OpenGL, GLSL
ML & High-Performance Computing: PyTorch, CUDA, OpenCL, OpenMP, MPI, SIMD SSE
3D Software: Maya, Houdini, Katana, Nuke, Presto, Flow, RenderMan, USD, Blender
Developer Tools: Git, GitHub, Visual Studio Code, Visual Studio, Perforce, Jira
Platforms: Unix/Linux, macOS, Windows