

Natalie O'Leary

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EDUCATION:

University of Southern California **Sept. 2021 – Aug. 2023**

Master of Science in Computer Science: Multimedia and Creative Technologies GPA; **3.8**

Princeton University **Sept. 2017 – May 2021**

Bachelor of Arts in Computer Science; Minors in Musical Theater & Visual Arts; GPA: **3.7**

RELEVANT EXPERIENCE:

Hornet Animations **Jan. 2024 - Present**

Pipeline Technical Director, Jan. 2026 - Present

- Support artists across the studio working in Maya, C4D, Houdini, Blender, Nuke and other DCCs
- Create tools for the animation pipeline and for artist experience
- Handle render farm management on AWS and local farms

Jr. Pipeline Technical Director, Jan. 2024 - Jan. 2026

- Created a CFX pipeline for Mac Miller's Balloonism, for the CFX of 15 characters in 100s of shots
- Handled day to day technical problems and challenges in a dynamic studio environment

CGL Art Intern, Soul Machines **May 2022 – Aug 2022**

- Created a code infrastructure for importing Digital Humans from company's proprietary software to universal platforms including Maya, Unity, Unreal Engine
- Used USD to preserve all facets of Digital Humans as they are transferred between platforms
- Stress tested the look development of the Digital Humans across platforms to ensure a consistent appearance

Graduate Researcher, USC Computer Graphics Lab **Sept. 2021 – Aug 2023**

- Worked with a team of researchers under Prof. Barath Raghavan to create CG animated versions of real life farming scenarios with polyculture agroecosystems
- Applied animation rendering techniques to real world light intake, to facilitate efficient farm layouts
- Simulated 5 ecosystems to create a tool to optimize and create a layout for real life polyculture farms
- Used OpenGL and GLSL to compute optimal plant configuration given light and canopy conditions

Center Director, Code Wiz **May 2021 – Aug 2021**

- Ran the operation of the Westford location, running classes, supervising instructors, and all administration duties for that branch
- Handled class and camp registration for over 300 new and returning students
- Supervised in-person kids at camp from 9-5, acting as both an administrator and a coding teacher
- Taught Unity, Roblox, Robotics and Minecraft coding

Hollings Scholar AWS Cloud Intern, NOAA **Jun. 2020 – Aug. 2020**

- Set up cloud computing through JupyterHub and ran analysis scripts on cloud data
- Collaborated with the Earth System Grid Federation to centralize inter-agency resources
- Liaised between ESGF and GFDL via the Cooperative Institute for Modeling the Earth System

Teaching Assistant, Computer Science Dept. Princeton University **Jan. 2019 – May 2021**

- Reviewed work of 8 other graders weekly to ensure fair and consistent grading
- Instructed on course material for 3 Computer Science courses taught in Java, Python and C
- Graded assignments of over 100 students in Computer Science courses weekly

SKILLS:

3D: Maya, Houdini, Blender, Motionbuilder, ZBrush, Nuke, Unreal, Unity, 3ds Max, Arnold, Karma

Scripting: Python, Java, C/C++, OpenGL, HLSL, USD, Unix/Linux, HTML, Javascript, AWS

Admin: Adobe: Photoshop; Premiere; After Effects; Acrobat, Microsoft: Excel; Word; Powerpoint