Jared Knofczynski

TECHNICAL ARTIST & PH.D. STUDENT

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Education

Bachelor of Science, Mathematics and Computer Science. Minor in Music Technology.

University of Oregon, March 2022.

Skills

Technical Art Shader development for Unity. Python scripting for Blender/Maya. Model Rigging, Animation, and UV Mapping.

Programming Python, C#, and C++. Web languages such as HTML and JavaScript. Scripting languages such as Bash and SQL.

2D (Adobe Photoshop, Illustrator), 3D (Blender, Maya), Game Design (Unity, Unreal), Texturing (Substance Painter).

Experience .

Independent Technical Artist

Remote

FREELANCE

- Working independently and with small teams of developers to implement artistic solutions in the Unity game engine.
- Design and technical lead for several small indie titles, including INHUMAN RESOURCES (linked below).

Internet Data Science Researcher

Eugene, Oregon

Apr. 2020 - Present

OREGON NETWORK RESEARCH GROUP, UNIVERSITY OF OREGON

Nov. 2020 - Jun. 2022

- Conducted machine learning research for networking applications using the PyTorch, Keras, and TensorFlow deeplearning frameworks.
- Findings published in the IEEE Journal on Selected Areas in Communications, July 2022.

Learning Assistant & Student Ambassador

Eugene, Oregon

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF OREGON

- Oct. 2019 Mar. 2022
- Tutored and provided additional instruction to undergraduate students in introductory computer science courses.
 Served as an ambassador between prospective future students to provide insight into the lives of current computer

Assistant Camp Director & Technical Art Instructor

Portland, Oregon Jun. 2019 - Sep. 2020

iD TECH

- Oversaw daily operations in camp activities and led team members in preparing lesson plans.
- · Provided instruction in several STEAM disciplines, including programming, video editing, 3D modeling, and more.

Undergraduate Researcher

Portland, Oregon

TEUSCHER LABS, PORTLAND STATE UNIVERSITY

Jun. 2020 - Aug. 2020

- Worked with a team of three other undergraduate researchers and faculty from the Oregon Health & Science University to simulate the transmission of airborne pathogens (i.e., COVID-19) via an agent-based modeling framework.
- This research was conducted as part of the *altREU* program at Portland State University in Summer 2020. The results were published in the PSU Online Library Archive.

Projects & Publications .

NDS Model Extractor (2022)

A set of Python scripts for Blender to automate the extraction and cleanup of 3D models found in game files for the Nintendo DS.

A Multi-Task Framework for Network Measurements (2022)

A state-of-the-art deep learning framework for classifying time-series network data, built with PyTorch and Snorkel. Findings from this project were published in the *IEEE Journal on Selected Areas in Communications*, July 2022.

INHUMAN RESOURCES (2021)

Final project for CIS 410 Game Design – a short game made in Unity with an emphasis on physics, art, and sound design. I was responsible for implementing gameplay logic, as well as environment and sound design. Source code available at github.com/j-red/Inhuman-Resources.

Combating COVID on College Campuses (2020)

An agent-based modeling framework designed in collaboration with faculty from the Oregon Health & Science University to simulate the transmission of airborne pathogens in academic settings. Findings published in Portland State University's online library archive.

Additional project and reference information available upon request.