

# Kara Johnson

Technical Artist | Software Engineer | Tools & Automation

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## Experience

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### Technical Artist – Tools & Pipeline

May 2024 – Present

Deadlift Studios (Part-time)

Projects: Unannounced Game

- Develop custom tools to address artist challenges by extending functionality of content creation software
- Set up and maintain version control integration between Perforce and Unreal Engine for over 4,000 assets
- Support 20 game artists and developers by leading training sessions and creating detailed tools documentation
- Automate process of validating naming standards and identifying unused assets, reducing project size by 25%
- Write batch scripts to configure nightly test builds using Unreal Automation Tool

### Software Engineer in Test

Oct 2022 – Present

ESO Solutions

- Lead bi-weekly releases of production builds to deploy a web application with over 500,000 concurrent users
- Serve as engineering liaison by translating technical requirements between developers and non-technical leads
- Collaborate with 8 external teams in coordination meetings to improve data accuracy and pipeline efficiency
- Write production code to add customer-requested features and resolve bugs within an enterprise codebase
- Design and implement a continuous delivery pipeline for automated testing, reducing QA time by 80%

## Technical Skills

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### Programming:

- Python
- PyQt5/PySide2
- C++
- C#
- JavaScript/TypeScript
- Perforce, Git

### Software:

- Unreal Engine 5
- Houdini, VEX
- Maya, MEL
- Snowflake, SQL
- Azure/Azure DevOps
- Agile Methodologies

## Released Tools

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### Quick Asset Actions – Unreal Engine 5 Plugin ([GitHub](#))

- Optimized inefficiency in asset management workflow by eliminating obsolete and misclassified project files
- Developed C++ plugin that streamlines the process of locating and organizing assets in the content browser

### Material ID Tool ([GitHub](#))

- Created Python script for Maya that generates and applies materials for texture assignment and visualization
- Implemented customizable features within user interface such as options for column counts and file paths

## Education

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### Texas A&M University

Bachelor of Science in Architectural Engineering: Mechanical Systems

May 2022

GPA: 4.0

## Service and Activities

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Women in Games Austin – Member | Women/Asians in Animation – Member | OpenAustin – Software Engineer