# **Brendan Ward**

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#### Education

Northwestern University, Evanston, Illinois

B.S. Computer Science

McCormick School of Engineering and Applied Science GPA: 3.3

Media Arts & Game Design Certificate

Significant Coursework

Design/Thinking/Communication 1&2 3D Computer Animation

Computer Graphics
Data Structures and Data Management

#### Skills

Python, C, C#, C++, Java, Assembly, Unity, 3ds Max, Maya, MEL, MAXScript, Substance, SQL, QT, Pyside

## **Experience**

### **Independent Technical Art & Character Art**

Summer 2020

June 2021

Technical projects explored during COVID

- Collaborated with indie artists to create a MAXScript that automates their workflow for mirroring skins
- Developed a Blender add-on which recreates the unique material inputs of Final Fantasy XIV, creating a more accurate preview for artists to work with
  - o Implemented i/o for material input binary data, which is compatible with engine tools
  - o Reviewed code from open source modding projects to create compatible tools
- Created custom character models, becoming familiar with processes of sculpting, normal map baking, material creation, texture painting, and skinning in 3ds Max, Blender, and Substance Painter/Designer

#### **Data Management Tools Intern**

Summer 2019

RWTH Aachen, Aachen, Germany

- Integrated with existing Robot Operating System setup to continue work on a seven-year project
- Implemented Pyside interface for initiating and evaluating data recording across four networked robots, for integration into future modular testing software suites
- Designed future-proof sensor data storage procedures, enabling future cooperation between mechanical and computer science departments on data analysis for up to a decade
- Collaborated in an international workspace, adjusting to various levels of language proficiency and cultural familiarity for cooperation on a team project

#### **Media and Design Studio**

**Summer 2017- March 2020** 

*Northwestern Weinberg College of Arts and Sciences*, Evanston, Illinois

- Restored outmoded digital archives for Picpus, Walled Garden of Memory in order to enable access on modern machines for teaching and research
  - Updated image details for IIIF implementation, creating an automated script to generate manifests from SQL data linked across multiple tables
  - Customized Omeka-S themes and plugins, using the Omeka PHP API and Omeka server events to streamline the user experience and add intelligence to the webpage
- Upgraded existing python scripts for syncing data between university registry and WebCheckout user/patron databases, streamlining the process to run automatically via cron with minimal impact

#### **Activities**

**Northwestern University Athletic Bands** 

August 2017 - November 2020

#### Phi Mu Alpha Sinfonia Fraternity, lota Chapter

January 2018 - June 2021

• Executive Committee, Warden: managed personnel, properties, and venues for events

#### **Boy Scouts of America**

February 2011 - May 2017

Eagle Scout: organized a large volunteer service project and studied life skills