

Brendan Ward

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Education

Northwestern University, Evanston, Illinois
McCormick School of Engineering and Applied Science
GPA: 3.1

June 2021 (anticipated)
B.S. Computer Science
Media Arts & Game Design Certificate

Significant Coursework

Design/Thinking/Communication 1&2
Human Computer Interaction

Game Design Studio
Computer Graphics

Experience

Intern, DAAD RISE Germany

Summer 2019

RWTH Aachen, Aachen, Germany

- Integrated with existing Robot Operating System setup to continue work on a project of seven years
- Implemented front-end interface using Python, QT, and ROS for initiating and evaluating data recording across four networked robots, for integration into future testing software suites
- Established rapport with successors to pass on maintenance of the software, ensuring continued smooth operation and usability

Media and Design Studio

Summer 2017– present

Northwestern Weinberg College of Arts and Sciences, Evanston, Illinois

- Restored outdated digital archives for Picpus, Walled Garden of Memory in order to re-enable access on modern machines for teaching and research
 - Customized Omeka-S themes and plugins with the PHP API and server events to streamline the user experience and add intelligence to the webpage
 - Updated image details for IIIF implementation, creating an automated script to generate manifests from SQL data, including details on the item and canvas levels
 - Created repositories and documentation on new scripts to future-proof the archival data
- Upgraded existing python scripts for Patron/Group import and maintenance in WebCheckout, automating multiple department's shared-equipment loan user database
 - Updated department's online instructions for using the import tool, decreasing the burden of the previous operators of the script

Design/Thinking/Communication

Spring 2018

Client: Kranze Technology Solutions, Prospect Heights, Illinois

- Adapted inductive charging products to support client's mobile development workflow
- Built an organizational device to protect up to four phones and tablets while charging
- Documented prototyping process including design, consulting, testing, and construction

Activities

Boy Scouts of America

February 2011 – May 2017

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

Northwestern University Athletic Bands

August 2017 – present

Phi Mu Alpha Sinfonia Fraternity, Iota Chapter

January 2018 – present

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

Skills

Computer – C, C#, C++, Unity, Assembly, Python, WebGL, JavaScript, pgSQL, Unix-based OS, git, 3ds Max
Languages – German (intermediate)