

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

Significant Coursework

Design/Thinking/Communication 1&2
Intro to Computer Graphics

Game Design Studio
Data Structures and Data Management

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
- Designed future-proof sensor data storage procedures, enabling future cooperation between mechanical and computer science departments on data analysis for up to a decade
- Implemented front-end interface for initiating and evaluating data recording across four networked robots, for integration into future testing software suites
- 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– 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- Restored outdated digital archives for Picpus, Walled Garden of Memory in order to re-enable access on modern machines for teaching and research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
- Upgraded existing python scripts for Patron and Group management in WebCheckout, automating multiple department's shared equipment loan user database

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
- Examined electrical safety in charging operations

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)