Brendan Ward

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https://github.com/brndnwrd

Education

Northwestern University, Evanston, Illinois　　　　　　　　　**June 2021 (anticipated)**
McCormick School of Engineering and Applied Science　　　　　　B.S. Computer Science
GPA: 3.0

Significant Coursework
　　　　Design/Thinking/Communication 1&2　　　　　　Game Design and Development
　　　　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 installation to continue work in a long-running 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- Restored outdated digital archives for Picpus, Walled Garden of Memory in order to re-enable access on modern machines for teaching and research
  - Reconciled resources from over 3 sources including old servers and a pgSQL database for use in a new website on the Omeka platform
  - 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 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, Python, Assembly, WebGL, GLSL, pgSQL, 3DS Max, Unix-based OS, git
Languages – German (intermediate)