

# Brendan Ward

630 Emerson St, Room 229  
Evanston, Illinois, 60201  
847-373-0365

brndnwrdr.github.io  
github.com/brndnwrdr  
[brendanward2021@u.northwestern.edu](mailto:brendanward2021@u.northwestern.edu)

## Education

**Northwestern University, Evanston, Illinois**  
McCormick School of Engineering and Applied Science  
GPA: 3.0

**June 2021 (anticipated)**  
B.S. Computer Science

### *Significant Coursework*

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

Microprocessor System Design  
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- Restored outdated digital archives for Picpus, Walled Garden of Memory in order to re-enable access on modern machines for teaching and research
  - 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, Python, Assembly, WebGL, JavaScript, pgSQL, Unix-based OS, git  
Languages – German (intermediate)