

---

# BRENDAN WHITFIELD

- ▶ [brendan-w.com](http://brendan-w.com)
- ▶ [github.com/brendan-w](https://github.com/brendan-w)
- ▶ [me@brendan-w.com](mailto:me@brendan-w.com)

Rochester, NY, United States

---

## EDUCATION

Rochester Institute of Technology  
B.S. New Media Interactive Development  
Minor in Free and Open Source Software  
3.75 / 4.00 (expected 2016)

---

## LANGUAGES

C++  
Python  
C#  
Java  
JavaScript  
HTML 5  
CSS 3

---

## TECHNOLOGIES

Git  
Linux  
SDL  
jQuery  
Flask  
Backbone.js  
Node.js  
PostgreSQL  
Arduino  
Raspberry Pi

---

## SKILLS

**Computer Science**  
OOP - Searching - Sorting - Hashing

**Mathematics**  
Fundamental Calculus - Geometric Computation

**Physics**  
Computational Kinematics and Dynamics - Fundamental  
Electrical and Optical

---

## INTERESTS

Open Source Software - Data Visualization - Reverse  
Engineering - Laser Show Projection - Building Pipe  
Organs - Artistic Glass Working

---

## PROJECTS

### LZR

Laser show graphics library written in C++. Handles  
animation and hardware I/O on Linux, and can drive laser  
show projectors via ZeroMQ.

### python-OBD

Python module for accessing real time engine data from a  
car's OBD-II diagnostics port. Provides an API for sync  
and async communication with the vehicle.

### C-Graph

Call graphing utility for C, integrated with GitHub. Written  
with Node.js and visualized with D3.

---

## EXPERIENCE

**UNICEF Innovation Unit** 2015 June - August  
Front & back end web developer for an experimental job  
matching portal. All work is open source, and was forked  
from 18F (government software agency). Worked remotely  
with UNICEF to design and implement a prototype website  
that allows users to apply for job opportunities.

**SwipeToSpin** 2014 June - August  
Front & back end web developer for 3D product  
visualizations. Implemented several UI refits, as well as  
new interfaces for user management and settings.  
Developed server applications for continuous content  
management.

**Programming TA** 2012 November - February  
Teaching assistant for RIT's intro to programming course.