

Matt Gukowsky

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Projects

NESPP/MAGSNES ([Download](#)) | [GitHub](#)

Nintendo Entertainment System (NES) emulator written in C++.

- Implements NMOS-6502 CPU and other components with microsecond accuracy in both native Windows and cross-platform SDL builds.
- Reproduces exact circuit behaviors, including undocumented features.
- Full JavaScript TDD suite ensures compliance with original system ABI.

CSBS ([Live](#)) | [GitHub](#)

A flashcard app modeled after [Brainscape](#).

- A Backbone.js front-end is supported by a RESTful Rails JSON API.
- Algorithm implemented in Backbone.js causes more challenging flashcards to appear with increasing frequency.

cREST ([Download](#)) | [GitHub](#)

Multithreaded REST client for Windows.

- Requests and responses are handled via specially constructed sockets, allowing for extreme responsiveness.
- Manually constructs specialized HTTP-compliant requests.

Skills

C++ (C, Win32, STL, SDL, Linux, DirectX, OpenGL), **JavaScript** (jQuery, Node.js) **Ruby/Rails**, SQL, Git, HTML 5, CSS, Python

Education

[App Academy](#) | New York, NY | 2016

- Full-stack web development course, acceptance rate < 5%

BA, Behavioral Psychology | BA, Music

Binghamton University | 2014 | Highest Honors

- **Curriculum Highlights:** Data Analysis, Test Design, Audio Design, Behavior Analysis, Statistics

Experience

Mohawk in the Berkshires, Inc. | June 2008 – January 2015

- Collaborated with business owner on outreach programs which increased number of clients by more than 40%.
- Built company website after learning HTML5, CSS, and JavaScript fundamentals on the job.

NYC Department of Education | February 2013- August 2013

- Taught special education, tracked data, and set goals for more than 100 students, including several with behavioral and language difficulties.
- Many students saw academic improvements of more than 50%.

Institute for Child Development, Binghamton University | August 2010 – December 2012

- Lead undergraduate supervisor, supervised treatment of clients and saw academic improvements of more than 100%.
- Marketed research findings and program designs at professional conferences.