Joseph Conwell

Student and Software Developer

Self-motivated and open-minded mathematics student, who fills their free time with personal projects. Those projects include early mornings kneading sourdough, full afternoons constructing code from crypto-algorithms, and late nights on Ableton (a popular DAW). Drummer and musician for 10+ years. Professional cook for 4+ years.

Personal Info

Address
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Languages and Frameworks

JavaScript	●●●●○
LUA	●●●●○
Python	●●●○○
Java	●●●○○
C++	●●○○○
Haskell	●●○○○
HTML/CSS	●●●●○
Love2D	●●●○○
Git	●●●●○
VueJs	●●●○○
AngularJs	●●○○○

Hard Skills

Programming Logic

Data Structures

Object Oriented Programming

Functional Programming

Software

Gimp	●●●○○
LibreOffice	●●●●○
SublimeText3	●●●●○

Volunteer Work

Aug 2018 - present — **Web Developer**

VTHacks

Responsibilities

- Collaborate with the design team to implement new versions of the website

Achievements

- Created a more accessible registration system for admin users

2015 - 2016 — **AM Director**

Educational Media Company at Virginia Tech, WUVT

Responsibilities

- Mentor and assist new DJs
- Schedule and monitor new DJs' shows

Achievements

- Implemented new practices still in use such as a shadowing program for new DJs and an online guidebook (wuvt.vt.edu/am-guide)

2014 - 2015 — **Traffic Director**

Educational Media Company at Virginia Tech, WUVT

Education

2020 — **Virginia Polytechnic Institute and State University**

- BS in Mathematics - Applied Discrete Mathematics track
- Minor in Philosophy
- Minor in Computer Science

2013 — **Archbishop John Carroll High School**

Projects

M3: A Webapp Music Player

github.com/jmc529/m3

A Firefox addon that connects to, and plays music from, Spotify. With this app you can play music directly from your browser! I expect to release it to the public within the next two months.

RSA Implementation in LUA

github.com/jmc529/RSA

This project implements the RSA algorithm, one of the first public-key cryptosystems. The program generates pseudo-random private and public keys, within the limits of an integer 'n' of 2^32, and encrypts and decrypts numerical messages.