

# 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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Blacksburg, VA, 24060

#### Phone

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#### E-mail

[jmconwell54@gmail.com](mailto:jmconwell54@gmail.com)

#### WWW

<https://jmc529.github.io/>



### Languages and Frameworks

JavaScript	●●●●○
LUA	●●●●○
Python	●●●○●
Java	●●●○●
C++	●●○●○
HTML/CSS	●●●●○
Love2D	●●●○●
Git	●●●●○
Vue.js	●●●○●
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](http://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](https://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](https://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.