

# JACOB WEBBER

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## Languages

### (Fluent)

Java  
SQL  
Python  
HTML  
CSS

### (Intermediate)

PHP  
JavaScript  
C++  
C#

### (Basic)

C

## Tools & Software

### (Fluent)

GitHub  
Eclipse IDE  
Visual Studio  
MS Office  
Adobe Suite

### (Intermediate)

Unity 5  
MySQL

### (Basic)

Google Analytics  
Android Studio

## Environments

Windows  
UNIX  
WordPress  
HubSpot

## Coursework

Software Development  
Database Management  
Virtual Reality in Unity  
Systems Programming  
Simulation & Modeling  
Computer Graphics  
Computer Networks

## Education

### Bachelor of Science (BS-CS) in Computer Science

Spring 2017 Graduation

University of Georgia, Athens, Georgia

## Work Experience

### Web Developer Intern | HW Creative Marketing | ([More Info](#))

May 2016 – Aug 2016

- Automated months of manual work in Microsoft Office through original Visual Basic macros that generated over 50,000 HTML posts from a decade of weekly reports.
- Improved and designed new scripts for efficient database updating and reorganizing.
- Created custom plug-ins and applications for clients with fast deadlines by utilizing APIs from HubSpot, DropBox, Google Drive, and WordPress.

### Report & Graphic Designer | Strategic Health | ([More Info](#))

April 2015 – Aug 2015

- Published status reports for clients, health risk assessments for presentations, and handouts utilizing compiled statistics from health databases on a provisional basis.
- Designed Microsoft Office templates for more efficient future company projects.
- Instructed employers on design techniques and performed live revisions to the projects to fit their needs.

### Freelance Graphic and Video Designer | Self-Employed

Aug 2012 – Present

- Created promotional videos with a post-production team for local art venues.
- Designed album artworks and promotional graphics for musicians.
- Updated and managed ads and brochures for start-up companies such as Direct Technology Resources.

## Projects and Accomplishments

### PathSim | CPU Simulator | Created by Dr. Dalton Hunkins | ([More Info](#))

June 2016 – Present

- Java application that simulates assembly code instructions on the data path of a CPU.
- Implemented multiple levels of simulation to datapath components such as the ALU and its internal components, allowing users to view instructions down to the binary and electrical logic gates. Source code available upon request.

### HighWire3D | Graphics Editor Software Package | ([More Info](#))

Dec 2015 – Feb 2016

- Created an original 3D graphics modeling and editing software designed to model wireframe scenes using 3D matrix operations that follow OpenGL standards.
- Capable of importing preexisting scenes, parallel and perspective projections, and provides intuitive hotkey commands and movements for editing objects.

### Quill & Inkpot (Quip) | Web-Based Application

Jul 2015 – Aug 2015

- Developed a web-based application with a team for thought sharing and storytelling.
- Written from the backend using JSPs and JS library JQuery to interact with a servlet.
- Connected to a SQL database in PostgreSQL designed to store user content.

### 1<sup>st</sup> Place in Microsoft Coding Competition Challenge | ([More Info](#))

Sep 2015

- Obtained the most points in Microsoft's UGA code competition within 3 hours.
- Competitive groups submitted solutions to as many coding problems as possible.

### Word Solver Algorithms | Dictionary Application | ([More Info](#))

Sep 2013 – Jan 2015

- A word solver that implements an original dictionary-parsing algorithm to obtain and display dynamic data for a word search.
- Uses dictionaries as a search engine and generates graphs to display frequencies.
- Written in Java using a GUI designed in Swing and Photoshop.