

JACOB WEBBER

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Skills

Meticulous developer with experience in object-oriented design, interface design, and all stages of web development. Possesses a strong background in creative marketing and graphic design.

Languages

Java (Fluent)
PHP (Fluent)
C++ (Fluent)
SQL (Fluent)
Python (Fluent)
HTML (Fluent)
JavaScript (Intermediate)
C (Intermediate)
C# (Intermediate)
CSS (Intermediate)
Rails (Basic)

Tools & Software

GitHub (Fluent)
Eclipse IDE (Fluent)
Visual Studio (Fluent)
MS Office (Fluent)
Adobe Suite (Fluent)
Unity 5 (Fluent)
MySQL (Intermediate)
Google Analytics (Basic)
Android Studio (Basic)

Frameworks & Environments

Windows (Fluent)
UNIX (Fluent)
WordPress (Fluent)
HubSpot (Fluent)

Relevant Coursework

Software Development
Database Management
Virtual Reality in Unity
Systems Programming
Simulation & Modeling
Computer Graphics
Data Structures
Theory of Computing
Computer Networks
Statistical Methods

Education

Bachelor of Science (BS-CS) in Computer Science 2012
University of Georgia, Athens, Georgia – Aug 2016

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.

Provisional Report & Graphic Designer | *Strategic Health Services* | ([More Info](#)) April 2015 – Aug 2015

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

Freelance Graphic and Video Designer | *Self-Employed*

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

Aug 2012 – Present

Server, Busser | *Mellow Mushroom Pizza (Athens GA and Cumming GA)*

- Worked up to 30 hours a week throughout IB and college.
- Selected to open new Cumming location and train employees.
- Extensive experience in customer service / communication.

Sep 2011 – Aug 2015

Projects and Accomplishments

PathSim | *CPU Simulator* | Created by Dr. Dalton Hunkins 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](#))

- 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.

Dec 2015 – Present

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

- 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.

Jul 2015 – Aug 2015

1st Place in Microsoft Coding Competition Challenge | ([MSFT3C](#))

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

Sep 2015

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

- 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.

Sep 2013 – Present

C Shell | *UNIX Shell Emulator*

- Original UNIX shell capable of handling commands with piping, forking processes, and background execution.
- Programmed in C on a UNIX server to emulate optimized shell capabilities.

Aug 2014 – 2015