

Joshua Morgan • Mastering the Fundamentals of Programming w/ Launch School

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Online Presence (links/usernames provided)

- GitHub ([JoshuaCMorgan](#))
- LinkedIn ([/in/joshua-morgan77/](#))
- Codewars ([JoshuaCMorgan](#))
- Instagram01 ([@joshua.c.morgan](#))
- Instagram02 ([@joshkarenphotography](#))

Professional Summary



I am currently enrolled as a student with [Launch School](https://launchschool.com) (<https://launchschool.com>), a results oriented and heavily researched learning curriculum designed for a long-term career as a Software Engineer. Launch School focuses on deep understanding of first principles acquired through [Mastery-Based Learning](https://launchschool.com/mastery) (<https://launchschool.com/mastery>).

Before transitioning to web development, I spent 10 years as a high school educator supporting students in acquiring and applying the skills and know-how to succeed in the college preparatory classroom.

Core Competencies - Skill Stack



Front-End:

- HTML5
- CSS
- JavaScript (In Progress)
- JQuery (In Queue)

Back-End:

- Git/GitHub
- Ruby
- Minitest
- Sinatra
- PostgreSQL

General:

- Command Line
- Markdown
- Photoshop / Lightroom
- Networking Foundations & Applications
- Database Foundations & Applications

Projects Focused on First Principles



Ruby Procedural Programs:

[Programming fundamentals \(RB101\)](#) ([link to repository](#))

The repository holds two projects. I was asked to build a single player Tic Tac Toe game and a game called Twenty-One. For both, the fundamentals in focus included mapping out logic and flow for a more complex program, holding code and application logic in head, being familiar with variable scoping rules, debugging using variable techniques and tools, and more.

Ruby Object-Oriented Programs:

[Projects focused on Object-Oriented fundamentals](#) ([link to repository](#))

These projects take the former games and apply Object-Orient concepts. These projects helped to solidify my understanding of how Ruby implements object oriented programming. Namely, understanding variable scope of instance, class and constant variables; the effect of sub-classing another class; the effect of mixing in a module; and how to define and invoke instance and class methods. The projects also gave me an introduction to knowledge of design patterns, architectural tradeoffs, and some best practices.

Ruby Web-based Application:

[Web-based personal task manager using PostgreSQL](#) ([link to app](#), [link to repository](#))

This project focused on applying my knowledge of Ruby and SQL together. Using Ruby and the 'pg' library, I learned fundamentals such as how to connect to PostgreSQL from Ruby, use the 'pg' gem to perform queries, build dynamic SQL statements safely, structure small command-line applications, and optimize queries made from Ruby programs.



HTML/CSS:

[Website reproduction & Todo list task manager \(projects page\)](#)

The goal was to reproduce [the following web page](#) as closely as possible. The link references an archived version of the page at the Wayback Machine, which I used for the project. The goal for the Todo List project was to build a Todo List manager using HTML and CSS. We were not to use any JavaScript, or to use any enhanced forms of HTML or CSS. We were asked for it to not be fully functional. However, one should be able to view the popup modal used for adding new todos, and the responsive hamburger should work to show and hide the navigation bar when the browser's width is less than 768 pixels wide.

Education



Student	Launch School Software Programming <u>Some Course Titles:</u> Object Oriented Programming, Networking Foundations, Networked Applications, Database Foundations, Database Applications, HTML/CSS, Fundamentals of JavaScript for Programmers.	2019 - Current
Graduate	Bob Jones University Masters of Arts, Teaching	2007
University	North Greenville College Bachelor of Arts, Christian Studies	2004
Teaching Certificate	USC Upstate Teaching Certificate in Elementary Education	2012

Past Experience (2007 – present)



Spartanburg Day School, 2013 - 2016

High School VISTAS Teacher

Supported students in acquiring and applying the skills and know-how to succeed in the college prep classroom. Worked with students to take charge of their own learning and follow a simple but disciplined strategy of learning tools conducive to their person. Most of my students had a learning disability in the range of ADHD, Non-Verbal, Aspergers, Dyslexia, Slow-Processing Speed, etc.

Hanalani Schools, 2010 – 2011

High School English Teacher

Taught 10th Literature and Composition. Built dynamic curriculum and classes that conveyed core content as well as inspired collaboration, creativity, adaptive problem-solving, critical thinking, communication, and positive digital citizenship.

Evangelical Christian School, 2007 - 2009

High School Theology Teacher

Taught 9th -10th grade Theology, and 7th-8th grade Keyboarding. Developed and implemented 18-week curriculum. Administered formal and informal assessment methods. Maintained a well-behaved classroom at all times. Met with parents to discuss their child's academic progress.