

Alexander Alford

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A former hobbyist turned aspiring web developer.

CERTIFICATES

Udemy

The Complete 2021 Web Development Bootcamp



- Extensive work creating interactive front-end web applications with the react framework along with Bootstrap styling and functionality.
 - Thorough experience with SQL and NoSQL databases with projects involving MySQL and MongoDB.
 - Fully encompassing javascript education with projects involving both front-end work with API's and JQuery, along with back-end construction with Node.js, MongoDB, Express, and EJS.
 - Several projects involved usage of infrastructure services such as Heroku for app hosting and MongoDB Atlas for database hosting.
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PROJECTS

Platforming Video Game

Technologies: C, SDL2 Library, Git

- Game engine coded entirely in C with assistance from SDL2 for input, graphics, sound, and more.
- The engine provides keyboard input, collision checking and resolution with platforms, several graphical layers, a player character that can be controlled, and AI enemies.
- Git is used for version control and prototyping of new features that might be added to the game.

Personal Website

Technologies: HTML5, CSS, Javascript ES6

- Written in pure HTML, CSS, and Javascript, the website uses no frameworks or API's and serves as my professional website.
- Responsive styling adjusts to different screen resolutions with changing button, text, and content box sizes in addition to layout changes.

Atomic Simulator

Technologies: Python, VPython

- A relatively small script that simulates the physics of an atom. Uses VPython module provides a 3D graphics interface along with graphing functionality.
 - Actively graphs the radial data of the electron and allows for the user to toggle the electrostatic force.
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EDUCATION

University of California San Diego

- 2 Years of education in a biochemistry/cellular biology major



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