

Jacob Cox

Las Vegas, NV 89108 • (725) 232-8844 • Jacob.Cox0413@gmail.com
<https://github.com/jakec0413lv>

SKILLS

- Proficient with C++ programming, using algorithms, data structures, and custom objects and classes to create efficient and effective code to solve problems.
- Extensive knowledge of the C++ syntax, standard library, in addition to utilizing STL containers for various purposes.
- Strong front-end UI skills using HTML5 and CSS3, creating websites with responsive layouts for modern browsers and mobile devices.
- Utilizing Javascript to add dynamic elements to sites and create various website add-ons including calls to API's using async/await functions, mouseover events, and dynamic menus.
- Familiar with MySQL concepts, and writing MySQL queries for database analysis.
- Excellent problem solving, communication, and time management skills.

LANGUAGES

- Proficient with C++, HTML5, and CSS3
 - Familiar with Javascript (React.js), Python, and MySQL
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EDUCATION

Bachelor of Science, Biological & Chemical Engineering, GPA: 3.269 | University of Colorado, Boulder, Colorado, 2014-2018

Bachelor of Science, Computer Science, GPA: 4.0 | University of Nevada, Las Vegas, Nevada, August 2020-May 2023 (Expected)

PROJECTS

- C++
 - *Banking System*: Uses custom objects and classes to handle "banking information," allowing for a user to create/delete accounts, check/transfer balances, and make deposits/withdrawals. Using I/O streams, data is written to a .txt file, creating a persistent ledger that is used for subsequent occasions. Includes features like PIN verification, and overdraft prevention.
 - *TextRPG*: Uses custom objects and classes to create a text-based RPG, complete with two types of playable characters (Knight/Mage), and a game loop with basic and boss instances. Includes level up mechanic with stats and skills, and output to external .txt file to allow for save/load states.
- HTML5/CSS3/Javascript

- *Fading Gallery*: Created custom code for a gallery of photos that cycles through various images with opacity control to create a “fade-in / fade-out” effect.
- *Personal Dashboard*: Created a personal dashboard that includes a weekly to-do list, grocery list, and current weather. Weather App functionality comes from utilizing calls to the openWeather API to provide current weather information for desired location.
- *Tanks*: In browser tank game with two players, using power and angle inputs from user to create realistic “cannonball physics” animation. Conditional statements are used to determine hit or miss conditions paired with HTML updating for simple score keeping.

WORK EXPERIENCE

Freelance Web Designer/Web Developer, May 2020

Designed and created personal and small business websites for clients using knowledge of HTML5 & CSS3 on platforms such as WordPress and Webflow. Ensured all SEO protocols were followed, and that the sites were dynamic across all platforms.

Server/Food Runner at *Del Frisco's Las Vegas*, September 2018- March 2020

Developed teamwork, interpersonal, time management, customer relations, and organizational skills while operating in an extremely high traffic restaurant.

Senior Biological Lab at *University of Colorado Boulder*, August – Dec 2017

Rendered expert services as a group member of four and competently performed various lab experiments to develop laboratory, organization, and time management skills.

Teaching Assistant at *University of Colorado Boulder*, August – Dec 2016

Designed and developed lesson plans as well as adopted effective practices to convey information to others. Supervised and managed a weekly recitation of 63 students and a large scale lecture of 200+ students.

Student Computer Support Technician at *University of Colorado OIT Center*, August 2015 – May 2016

Provided in person, hands-on technical assistance to faculty, students, and staff on various different platforms, including internet connection troubleshooting, printer set up, driver installation and more.

AFFILIATIONS

- **Member of ACM of UNLV (Association of Computer Machinery)**