

Alexis DeCicco

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TECHNICAL SKILLS

Languages

- CSS
- HTML
- Java
- JavaScript
- Python
- VBA

Frameworks/Libraries

- Bootstrap
- Flask
- jQuery
- Node.js
- React
- Vue.js

Databases

- MongoDB
- NoSQL
- MySQL
- SQLite

Tools

- Amazon EC2
- Chrome DevTools
- Git
- Netlify
- NPM
- VS Code

Other

- Agile/Scrum
- CI/CD
- Database Injection
- MVC
- Responsive Design
- RESTful APIs

EDUCATION

Coding Dojo | Full Stack Developer Certificate in Python, Java, and JavaScript | Online **2022-2023**

- Algorithms, HTML, CSS, MongoDB, and SQL

University of Colorado Boulder | Computer Science **2020-2022**

- Boolean Logic, Data Structures, and C++

PROJECTS

Personal Portfolio Website | Front-End Developer | [Github](#) | [URL](#)

Vue website to compile my resume, contact information, development projects, and work experience.

- Designed 7 dynamic website display options using Vue 'refs' and 'v-model' to enhance user engagement.
- Applied 2 consecutive async functions within the 'onMount' hook to execute an intro animation that can be disabled by an AbortController with any user input.
- Developed 6 Vue SVG components featuring an optional gradient fill that can be animated with customizable speed and direction using a composable function that cycles through colors for each gradient template ref.
- Created a blur spread effect for SVG elements with an SVG 'filter' that can be customized relative to the optimal 'stdDeviation' per element or disabled entirely for improved accessibility and performance.
- Linked navigation buttons to section breaks by their window object y-axis value that adapt to the display orientation and change appearance using 'v-if' hooks according to the scroll position for intuitive site navigation.
- Built an interactive image slider that dynamically overlays a portion of the second image using the 'clip-path' property of a 'computed' style object to promote interactivity and image comparison.

Set | Front-End Developer | [Github](#) | [URL](#)

Desktop Chromium game based on The Set® Card Game, featuring many customization options, written in React

- Created 18 SVG shapes and 9 SVG patterns using path strings and JSX in a React SVG component with a fixed viewBox to automatically update every card according to user preferences.
- Managed 20 'useState' variables and props using useEffect, useCallback, and 17 other functions across 18 components to track card selections, game progress, user customizations, and dynamically rendered pop-ups.
- Structured the deck object using array indices corresponding to the user data allowing customizations to card color, shape, or pattern to be made without the loss of game progress.

Mastermind | Front-End Developer | [Github](#) | [URL](#)

Two-day Vue project based on the Mastermind game, where players must determine the randomly generated secret code

- Created 5 'v-model' input options where users can customize peg color, the number of guesses, color options, and secret code length, to adjust the difficulty and personalize their experience.
- Implemented inline template literals to apply a radial gradient CSS background to each peg based on user input for a 3D visual effect.

Client Portfolio Website | Front-End Developer | [Github](#) | [URL](#)

React website to showcase art and provide contact information

- Developed responsive React components using flex and grid to responsively present information and images for over 20 works across various browsers.
- Applied react-router-dom to establish a url navigation structure that is consistent and user-friendly across 25 pages.
- Deployed the application with Netlify, using CI/CD to automate builds upon changes to the GitHub repository.

The House | Full Stack Developer | [Github](#)

Short, text-based narrative game with puzzle elements using Python, Flask, and bcrypt

- Designed an SQL database using bcrypt encryption to securely manage hashed passwords and many-to-many relationships to track 5 puzzles, 22 collectible items, and 13 locations for each user.
- Structured the Flask application following MVC convention to organize over 50 distinct HTML, Python, and CSS files.
- Utilized Jinja templating to render game items and locations dynamically on the page according to backend user data.

PROFESSIONAL EXPERIENCE

Home Improvement Contractor | Private Homeowner | Boulder, CO

2023-2024

- Installed a porcelain and stone mosaic backsplash to the kitchen to make cleaning stains easier, prevent damage to the walls from any moisture, and add color to the space.
- Removed existing shiplap wall plank and drop ceiling paneling to allow for the reframing and drywall of the space, improving both functionality and appearance of the room.
- Refreshed the backyard patio, including the repair of a fountain pump and compost of dead plant life, to make the communal outdoor space more functional and inviting.

Basement Renovation Contractor | Private Homeowner | Fort Collins, CO

2023

- Supervised framing, drywall, flooring, tiling, and more to cost effectively complete the renovation in a timely fashion.
- Installed over 500 square feet of underlayment and LVT flooring, maintaining orientation throughout 5 different rooms to create a consistent decorative theme.
- Designed and constructed two custom closets to maximize available space and increase usability for the storage of clothing and other items.

Wiring Technician | Avionics Specialists LLC. | Loveland, CO

2018-2020

- Developed custom wiring diagrams using Microsoft Office and VBA for installation on 50+ private aircrafts.
- Manufactured precision dashboards, brackets, and glove boxes using a variety of workshop tools to maximize the quality of every installation.
- Integrated avionics technologies from Garmin, Genesys and others using technical documentation to ensure compliance with FAA regulated safety and redundancy requirements.