Alexis DeCicco

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TECHNICAL SKILLS

Languages: CSS, HTML, Java, JavaScript, Python, VBA
Frameworks/Libraries: Bootstrap, Flask, jQuery, React, Vue.js
Databases: MongoDB, MySQL, SQLite
Tools: Amazon EC2, Chrome DevTools, Git, Netlify, NPM, VS Code
Other: Agile/Scrum, CI/CD, Database Injection, MVC, Responsive Design, RESTful APIs, SVG

PROJECTS

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.

Karplus Portfolio Website | Front-End Developer | Github | URL

React website to showcase art and provide contact information for the client

- 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.

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..

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.

PROFESSIONAL EXPERIENCE

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.

Budtender | Fresh Baked Boulder | Boulder, CO   **2021**

- Managed 40+ customer interactions daily using a Marijuana Enforcement Tracking Reporting Compliance approved POS system to provide secure and reliable access to recreational marijuana.
- Memorized health, safety, and usage information for a rotating stock of 100+ products to provide accurate and affordable recommendations to local and international customers.

- Collaborated with 15 other team members to maintain a friendly and clean retail environment that complied with all necessary MED requirements surrounding the storage and distribution of marijuana resulting in a frequent and growing list of regular customers.

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.

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 exsisting 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.

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 | Boulder, CO **2020-2022**
- Boolean Logic, Data Structures, and C++