

Matayay Karuna

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EDUCATION

University of Colorado Boulder

Bachelor of Science in Computer Science | GPA: 3.82

Boulder, CO

08/2022 – 05/2026

Relevant Coursework: Starting Computing, Data Structures, Intermediate Web Development

EXPERIENCE

Student Software Engineer

June 2023 – Present

CU LAIR Lab

Boulder, CO

- Fullstack Engineer responsible for developing a website to interface, monitor, and retrieve data from DAQ sites measuring VLF radio waves
- Made use of Next.js and Tailwind.css to construct frontend
- Leveraged AWS services including API Gateway, Lambda, and Dynamodb to construct backend
- Developed an API based on WebSockets to allow bidirectional communication between website and DAQ sites

Security Guard

September 2022 – May 2023

Norlin Library

Boulder, CO

- Maintained safety in the University Library
- Conducted routine rounds and security checks
- Offered assistance to patrons regarding lost and found as well as general questions

PROJECTS

Star Wars Hub | Firebase, React, Tailwind, Typescript

[Live](#) | [Code](#)

- Developed a Star Wars themed forum site
- Allows creation, editing, and deletion of posts
- Each post can be liked and commented on
- Wrote CRUD functions that connect to a Firestore Database
- Styled and ensured responsive design using Tailwind CSS

Where's Waldo? | CSS, Firebase, React, TypeScript

[Live](#) | [Code](#)

- Created a Where's Waldo photo tagging app
- Built an algorithm to calculate (X, Y) coordinates of Waldo, The Wizard, and Odaw
- Implemented distance formula to calculate the proximity of a user click to a character
- Fetches from a Realtime Database to get the data on where the characters are

Dungeon Escape | C++

[Code](#)

- Built a dungeon escape game in the terminal using C++
- Game includes the use of multiple classes which inherit from each other
- Allows the user to create a party of characters to traverse the dungeon with
- Functionality includes a terminal generated map that can be moved through
- User must clear five rooms of enemies and make it to an exit to win

Give Me Cats | CSS, React, TypeScript

[Live](#) | [Code](#)

- Developed a web app that fetches data from a cat API
- A random cat from the API is displayed every time the user clicks a button
- Cats can be prevented from appearing by adding their country of origin to the ban list

Calculator | CSS,HTML,JavaScript

[Live](#) | [Code](#)

- Created a standard calculator using vanilla JavaScript
- Includes the same operations as the default IOS calculator

TECHNICAL SKILLS

Languages: C++, CSS, HTML, Javascript, Node.js, Python, TypeScript

Frameworks: Next.js, React, Sveltekit, Tailwind

Technologies: AWS Lambda, Dynamodb, Firebase, Git, Supabase, VSCode, Vite, WebSockets