

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, Computer Systems, Database Systems, Software Development Methods and Tools

EXPERIENCE

Student Software Engineer

CU LAIR Lab

June 2023 – Present

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 create a websockets API which allows bidirectional communication between website and DAQ sites

Security Guard

Norlin Library

September 2022 – May 2023

Boulder, CO

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

PROJECTS

Personal Website | SvelteKit, Tailwind, Typescript

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

- Created a website to serve as a personal portfolio
- Implemented transition animations on page load and scroll
- Includes links to socials and resume

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

Dungeon Escape | C++

[Code](#)

- Built a text based terminal dungeon escape game
- 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

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 Odlaw
- 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

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, Python, SQL, TypeScript

Frameworks: Express.js, Next.js, React, Sveltekit, Tailwind

Technologies: AWS Lambda, Dynamodb, Firebase, Git, Node.js, PostgreSQL, Supabase, WebSockets