

Matayay Karuna

(719)-480-1645 | matayaykaruna@gmail.com | Boulder, CO
matayay.com | github.com/matayay | linkedin.com/in/matayay

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
- Setup and maintained a PostgreSQL database consisting of multiple tables that can be joined
- Developed REST API using Express.js to link up website, database, and a Network Attached Storage server (NAS)

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

June 2023 – July 2023

- Created a personal website to serve as a portfolio and to illustrate my experience
- Implemented transition animations on page load and scroll

Star Wars Hub | Firebase, React, Tailwind, Typescript

April 2023

- Developed a Star Wars themed forum site that allows for the creation, editing, and deletion of posts
- Each post can be liked and commented on and contains a title, image, and subtitle
- Wrote CRUD functions that connect to a Firestore Database to manage post storage

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

March 2023

- 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

December 2022

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

Dungeon Escape | C++

November 2022 – December 2022

- Built a text based dungeon escape game that runs in the terminal
- 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

TECHNICAL SKILLS

Languages: C++, CSS, HTML, Javascript, Python, SQL, TypeScript

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

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