Matayay Karuna

(719)-480-1645 | matayaykaruna@gmail.com | Boulder, CO

matayay.com | github.com/matayay | linkedin.com/in/matayay

EDUCATION

University of Colorado Boulder — Boulder, CO
Bachelor of Science in Computer Science | GPA: 3.82 — *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 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

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: Express.js, Next.js, React, Sveltekit, Tailwind
Technologies: AWS Lambda, Dynamodb, Firebase, Git, Supabase, VSCode, Vite, WebSockets