

Matayay Karuna

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EDUCATION

University of Colorado Boulder Bachelor of Science in Computer Science GPA: 3.66	Boulder, CO Aug. 2022 – May 2026
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Relevant Coursework: Algorithms, Computer Systems, Database Systems, Human Computer Interaction, Intensive Programming Workshop, Introduction to CyberSecurity, Object Oriented Programming, Principles of Programming Languages, Software Development Methods and Tools, Web Development

EXPERIENCE

Student Software Engineer <i>Colorado Center for Astrodynamics Research: LAIR Lab</i>	June 2023 – December 2025 Boulder, CO
<ul style="list-style-type: none">Fullstack Engineer responsible for developing a website to interface, monitor, and retrieve data from DAQ sites measuring VLF radio wavesMade use of Next.js and Tailwind.css to create front-end and build responsive UILeveraged AWS services including API Gateway, Lambda, and Dynamodb to create a WebSockets API which allows bidirectional communication between website and 11 DAQ sites in under 1 secondSet up and maintained a PostgreSQL database consisting of multiple tables that can be joined for the backendDeveloped REST API using Express.js to link up website, database, and a Network Attached Storage server (NAS) to allow for viewing and downloading of NAS files from websiteUpdated pre-existing python DAQ code to auto upload generated files to NAS using Express API	

PROJECTS

Checkers C++, Qt	April 2024 - May 2024
<ul style="list-style-type: none">Two player checkers game that alternates between each side's turn after every moveSupports chain attacks. Game ends when one player wins or when no moves are possibleDeveloped game logic in C++, implemented GUI using Qt Creator	
Personal Website SvelteKit, Tailwind, TypeScript	June 2023 – July 2023
<ul style="list-style-type: none">Created a personal website to serve as a portfolio and to illustrate my experienceImplemented transition animations on page load and scroll	
Star Wars Hub Firebase, React, TypeScript	April 2023
<ul style="list-style-type: none">Developed a Star Wars themed forum site that allows for the creation, editing, and deletion of postsEach post can be liked and commented on and contains a title, image, and subtitleWrote CRUD functions that connect to a Firestore Database to manage post storage	
Where's Waldo? CSS, Firebase, React, TypeScript	March 2023
<ul style="list-style-type: none">Created a Where's Waldo photo tagging appBuilt an algorithm to calculate (X, Y) coordinates of Waldo, The Wizard, and OdlawImplemented distance formula to calculate the proximity of a user click to a characterFetches from a Realtime Database to get the data on where the characters are	
Dungeon Escape C++	November 2022 – December 2022
<ul style="list-style-type: none">Built a text based dungeon escape game that runs in the terminalAllows the user to create a party of characters to traverse the dungeon withFunctionality includes a terminal generated map that can be moved throughUser must clear five rooms of enemies and make it to an exit to win	

TECHNICAL SKILLS

Languages: C/C++, CSS, HTML, Java, JavaScript, Python, Scala, SQL, TypeScript

Frameworks: Bootstrap, Express.js, Next.js, React, SvelteKit, Tailwind CSS

Databases: DynamoDb, Firebase, MySQL, PostgreSQL, SupaBase

Technologies: AWS Lambda, Docker, Git, HTTP, Linux, Node.js, Qt, VSCode, WebSockets

Other: Agile Methodology, Communication Skills, Team Player