Kyle Neff

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Education

University Of Colorado Boulder, BS Major in Computer Science, Minor in Business, 2025

Relevant Coursework

Intro to Artificial Intelligence
- Greedy, A*, UCS, simulated annealing, bayes net, markov decision process, coded in Python

Algorithms
- Complexity, recurrence relations, dynamic and linear programming, unrolling, quicksort

Software Development Methods and Tools
- Creation of web applications using JavaScript, HTML, and CSS

Intensive Programming Workshop
- Object-oriented programming paradigms, scope, inheritance, program structure and design, and building graphical user interfaces.

Fundamentals of HCI
- Practice of human-computer interaction and techniques of user-centered design, and interactive technologies

Database Systems
- SQL database querying, design, normalization, and database management

Projects

NASA Rover Pathfinding
- Group project consisting of 4 other students and a project sponsor where the goal was to give the most optimal path from point A to B and visualize a 3D model. A* pathfinding algorithm was coded in Python while the model was coded in HTML and JavaScript. The model was visualized using the WebGL library and a DEM File.

Music Recommender
- Full stack webpage that focuses on creating a Spotify-like music player that generates a recommendation playlist using machine learning techniques based on the user's music preferences. Backend uses SQL to store all the songs, while the frontend is built with HTML and JavaScript. The music recommendation system is developed in Python and connected to the frontend using Flask.

GeoLock App
- Users can add or view locational facts based off their location. Built with Next.js as the framework, PostgreSQL as the database, connected with a REST API, then deployed with Docker and Heroku

Poker Session Stats
- Developed and implemented an Android poker tracking app using Java and Android SDK, featuring real-time profit calculations, session management, and persistent data storage

Technical Skills

C++, Python, MySQL, HTML, JavaScript, Java, Git

Previous Jobs

Sushi Chef, Colorado Springs, CO
- Worked as a sushi chef summer of 2020
- Interacted and socialized with customers at the sushi bar
- Learned how to work with colleagues and collaborate to complete orders

Star Of Honolulu 3Star Server, Honolulu, HI
- Quality service while maintaining a fun and friendly environment
- Served five course meal to customers
- Clean and bus tables before and after service