

Rasmi Lamichhane | Résumé

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Education

The University of Colorado, Boulder

Bachelor of Computer Science

2012-Current

Experience

University of Colorado Boulder Libraries

Student Assistant Digital Lab

Digitizing different kind of archival material and processing it.

Boulder, CO

Fall 2015-Present

University of Colorado Boulder Libraries

Student Assistant LIT

Web help desk, Troubleshooting software and hardware problems, image computer, printers problems and etc.

Boulder, CO

Summer 2015

Computer Skills

Language: C/C++, Python, Java, HTML/CSS, Mathematica, SQL, Bash Shell Scripting, Regex

Tools: Unit Testing, Pair Programming, Rest and Soap, Agile/Scrum methodology, Waterfall, Databases

Extra: Github, Adobe Photoshop, Freehand, Microsoft Office

Projects

Sparki Pill Pusher

<https://git.io/v64Lp>

<https://youtu.be/TKgePysJxr0>

- Sparki follows specified paths to fetch 1 of 5 bottles.
- It uses light sensors to make sure that it stays on the defined path, and uses its ultrasonic sensors to find the fastest path to the bottle at an optimal angle.
- Sparki uses its RFID scanner to scan the pill bottle, making sure that the unique tag matches with the specified bottle number. If an incorrect bottle is approached, Sparki will beep, display a message that it is incorrect, and move back to the start to await more instructions.

Python Data visualization

<https://git.io/v68ax>

<https://youtu.be/K5FWMMMd8d4>

- Created a webpage using HTML, Python, and MySQL, which displays an animated Choropleth map to visualize Carbon Dioxide Emissions per state in the United States over the past two decades.
- The states are color-coded according to the annual amount of emissions per state in million metric tons of carbon dioxide, and a cursor hover over a particular state will display a breakdown of that state's Carbon emissions per type in petroleum, coal, and gas.

Extra Curricular

- ALP(Applied Leadership Program)
- CLP(Core Leadership Program)
- Graphic Designing
- Westminster Public Library(Volunteer in the computer class)2014

Groups

- HACK CU,CUWIC(Women in Computing)