Rasmi Lamichhane | Résumé

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Education

The University of Colorado, Boulder
Bachelor of Computer Science 2012-Current

Experience

University of Colorado Boulder ATLAS Boulder, CO
Student Android Developer Fall 2016-Present
Developing Android Application.

University of Colorado Boulder Libraries Boulder, CO
Student Assistant Digital Lab Fall 2015-Fall 2016
Digitaling different kind of archival material and processing it.

University of Colorado Boulder Libraries Boulder, CO
Student Assistant LIT Summer 2015
Web help desk, Troubleshooting software and hardware problems, image computer, printers problems and etc.

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
- Sparki follows specified paths to fetch 1 of 5 bottles. https://youtu.be/TKgePysJxr0
- 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
- Created a webpage using HTML, Python, and mySQL. https://youtu.be/K5FWMMMd8d4
- Displays an animated Chloropeth map to visualize Carbon Dioxide Emmissions per state in the US 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.

Weather Data visualization https://git.io/viN7J
- Created a webpage showing the weather across the United States.
- Used python to connect the API to the webpage and html for basic layout.

Android Inventory App https://git.io/viOZW
- Created a inventory app using Android Studio with Java and XML.
- Displays image, price and quantity of the each item and calculates the overall amount of total items.

Rootfinding https://git.io/viNQe
- Root-finding in python using newton's method and newton's method with line search.
- Used python's loops and tuple.

Battleship https://git.io/viNQI
- Battleship is a simplified version of board game.
- Used C++ classes, loops and different methodes.
- The computer will hold the ships in the grid and the player will have to guess where those ships are.

Bag https://git.io/viNQ0
- Bag of array and lists.
- Used C++ array, single and double linked list with classes, loops, pointers, and different methodes.

Stacks and queues https://git.io/viNQA
- Created stacks and queues of array, single linklist and double linked list.
- Used C++ array, single and double linked list with classes, loops, pointers, and different methodes.

Extra Curricular

a) ALP(Applied Leadership Program),CLP(Core Leadership Program),Graphic Designing,Westminister Public Library(Volunteer in the computer class)2014, CUWIC(Women in Computing)