Rohan Behera

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EDUCATION: **University of California Riverside**
Bachelor of Science in Computer Science with Business Applications
Expected graduation date: June 2023
Cumulative GPA: 3.25

RELEVANT COURSES:

- Introduction to Data Structures and Algorithms
- Database Management Systems
- Data Analysis Methods
- Data Science Ethics
- Design of Operating Systems
- Introduction to Information Retrieval
- Intermediate Data Structures and Algorithms
- Software Construction
- Discrete Structures

TECHNICAL/NON-TECHNICAL SKILLS:

- Programming Languages: C++, Java, Python, R, PostgreSQL. Libraries used: Lucene, Maven, Pandas, Matplotlib, NumPy, Scikit-Learn, Seaborn, SciPy, MongoDB
- Web Development Languages: HTML, CSS, JavaScript, JSON, LaTeX
- Version Control Software/Scripting Languages: GitHub, Git, Bash, PowerShell
- Familiarity with cloud-based environments
  Microsoft Azure, AWS
- IDE Software: Visual Studio Code, NetBeans, CLion, Jupyter Notebooks, Microsoft Access
- Software development methodologies: Scrum, UML, design patterns, CMake, Kanban, Google Unit Test Framework, Valgrind

PROJECTS:

Online Retail Store   **Database Administrator**   **September 2022-December 2022**

- As part of my final project for my introduction to database management systems course, I worked in a group of 2 to model and build an online shopping system for a retail shop.
- For phase 1 I designed an ER diagram to represent the key and participation constraints provided and recorded the assumptions we made along the way.
- For phase 2 I created a relational schema in PostgreSQL translating the ER diagram we made in phase 1
- For phase 3 I developed a client application using the Java database connector.
    - For the customers I implemented the ability to view stores within 30 miles of their location, view products in a particular store, and their last 5 recent orders.
    - For the managers I implemented the ability to see the top 5 popular products and customers as well as the ability to see all the orders for the stores that they manage.
- Link: https://github.com/rohanbehera03/CS166OnlineRetailSystem

Analyzing Student Performance in CS classes   **Python Developer**   **October 2022-November 2022**

- As part of my mini project for my data analysis methods course, I worked with a group of 5 people to analyze data from a survey answered by students from 3 computer science classes
- I wanted to figure out if student's CS experience before coming to UCR affected how well they did in CS classes now.
    - I looked at multiple factors such as age, major, ethnicity, AP computer science/math courses they took, etc.
    - I took in the dataset, cleaned the data, and performed exploratory data visualizations including heat maps, bar charts, and scatter plots
- Performed chi-square analysis on our dataset and used NumPy, Pandas, Seaborn, and SciPy Python libraries.
- Link: https://github.com/rohanbehera03/CS105MiniProject

Analyzing Obesity Statistics   **Python Developer**   **November 2022-December 2022**

- As part of my final project for my data analysis methods course, I worked with a group of 5 people to analyze obesity statistics from Columbia, Peru, and Mexico.
- I took a dataset provided by UCI's machine learning repository, cleaned it and created exploratory data visualizations from it including box plots, bar charts, and heat maps.
- I applied machine learning algorithms including k-nearest-neighbors, k-means-clustering, and decision trees to make predictions on whether a user is obese or not based on factors provided to us such as age, height, and water consumption.
- Link: https://github.com/rohanbehera03/ObesityDataAnalysis

Twitter Search Engine   **Java Developer**   **April 2022 – June 2022**
- As part of my final project for my introduction to information retrieval class, I worked in a group of 5 people to build a social network search engine.
- For phase 1 I built a web crawler in Python to collect tweets relating to Marvel using the Twitter Streaming API and store them in JSON files. As a result of running the crawler overnight for several days, I was able to collect over 700 mb of tweets.
- For phase 2, I wrote a program in Java to parse the JSON files and insert them into Lucene. Then I created a web-based interface using Spring Boot, HTML, and CSS. This allowed a user to search for a particular Marvel topic, and the search engine would return the top 10 most relevant results.
- Link: https://github.com/rohanbehera03/twittersearchengine

Library Database System   **C++ Developer**   **April 2021 - June 2021**
- Developed a program in C++ for our software construction class to use in command line interface
- The program allowed user to search for a book by title, author, or genre and allowed the user to check out the book
- Program would also give due dates for each book and calculate late fees if there were any just like a real library system
- I used Google Test Framework, Valgrind for unit-testing
- I used strategy and composite design patterns to implement searching functionality and factory design pattern to display the search results to the user.
- Link: https://github.com/rohanbehera03/FinalProjectLibraryDatabase

Publications:

Marketing Plan for Apple Inc.   **February 2023 - March 2023**
- I developed a comprehensive marketing plan for the iPhone lineup made by Apple
- I presented a brief executive summary of the company, market description, product review, review of the current competition and distribution
- I performed a detailed SWOT analysis, highlighting the major threats and opportunities the iPhone faces for Apple
- I described a detailed action program for Apple and a supporting marketing budget to cover these costs
- I outlined control mechanisms that higher management in the company can use to monitor progress towards these goals
- Link: https://drive.google.com/file/d/1amXOJpSnwza84Nzzn6rYAxXZ4L5AREcB/view?usp=sharing

WORK EXPERIENCE:

UCR Information Technology Solutions, Riverside, CA   **Systems Administrator**   **April 2022 – Present**
- Use Five9 Cloud Contact Software to make and answer calls
  - Reduced wait times between calls by 20%
- Open and resolve tickets for clients using ServiceNow
  - Increased response rate for tickets by 15%
- Troubleshoot issues clients may have with Cisco Jabber, Cisco Global Protect, Duo Mobile, Outlook, Microsoft Office, wireless networking, password resets, accessing transcripts, etc.
- I provide step by step instructions to students, staff, and faculty members over the phone and in-person through the Knowledge Base instructions

ACTIVITIES/AWARDS:

- Dean's Honors List   Recipient   Spring 2020, Fall 2020
- National Society of Leadership and Success Member   Fall 2021–Present
- Rose Hack   Mentor   2023