

Ritul K. Soni

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EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Bachelor of Science in Computer Science + Economics **GPA: 3.91/4.0 Dean's List**

Expected May 2024

Relevant Coursework: Data Structures, Algorithms, Software Design, Data Visualization, Computer Systems

EXPERIENCE

Career Advancement Exchange

February 2023 – Present

Head of Research & Development

Chicago, IL

- Led market research initiatives, leveraging data analytics and AI techniques to identify key trends, user preferences, and market opportunities resulting in a remarkable 70% increase in user engagement and platform adoption rates.
- Collaborated with the development team to integrate AI-driven algorithms into our platform, automating resume screening and candidate matching processes, reducing manual effort by 40% and improving efficiency.
- Work closely with cross-functional teams, including marketing and infrastructure, to align research findings with overall business objectives and future technology solutions.

Carle College of Medicine

January 2023 – May 2023

Software Engineer Intern

Champaign, IL

- Designed and developed an interactive, user-friendly interface that enables patients to access animations, descriptions of heart defects, and visualizations of their heart anatomy, physiology, and conditions.
- Implemented a customized, three-dimensional digital viewer for the heart models in the app, and built the backend to store all 3D models of hearts with diseases, ensuring efficient storage and retrieval of patient data. This app enables physicians to better communicate cardiac abnormalities, discuss surgical management and options, and helps patients better understand their condition, making more informed decisions about their own care.

Department of Computer Science, UIUC

January 2022 – Present

Project Manager CS222, CS124 Honors

Champaign, IL

- As project manager for a course on agile software development, successfully led teams of students through semester-long projects and taught the use of scrum boards and Git version control.
- Managed multiple teams of 5 people in various projects, ensuring timely completion of project timelines, resources, and deliverables. Demonstrated strong communication abilities and effectively managed teams, solidifying my understanding of agile practices and ability to mentor team members.

PROJECTS

Neural Style Transfer Full Stack Web Application | TensorFlow React JavaScript

Aug 2022 – Present

- Composed a Deep Neural Network-powered website using React and TensorFlow that allows users to apply the style of various famous artwork to their own photos in real time.
- Designed and implemented the frontend of a neural style transfer website using React, providing a seamless and intuitive user experience through thoughtful design and implementation of the website's interface. Demonstrated expertise in web development with React and the ability to collaborate effectively on a cross-functional team.

Open Flights Dataset Analysis | C++

November 2022 – December 2022

- Utilized OpenFlights dataset of over 14,000 airports to design and develop a graph-based solution for airport and route analysis. Implemented an adjacency list representation for optimized runtime performance and efficiency.
- Produced a command line interface for users to run algorithms to find shortest path between airports, busiest airports, and number of airports connected in a single component (network).
- Implemented Dijkstra's & PageRank algorithms in C++ for data analysis. Composed efficient data structures that improved runtime performance by over 200% to analyze and extract valuable insights from the parsed data.

TECHNICAL SKILLS

Advanced Languages: C/C++, Python, Javascript/HTML/CSS **Intermediate Languages:** Kotlin, Java, Bash

Technologies/Frameworks: Flutter, NextJS, React, Flask, Git, GitHub Actions, Scrum, Docker, TensorFlow

Interests: Machine Learning, Full Stack Development, Quantative Finance, Frontend Development, Mobile Development

Spoken Languages: English, Hindi, Gujarati, Urdu, Spanish **Soft Skills:** Driven, Flexibility, Dedicated, Continuous

Learner, Leadership, Teamwork, Critical Thinking, Empathy, Consistent, Competitive, Willingness to Learn, Professional

Skills: Node.js, AWS, Generative AI, CI/CD, Google Cloud Platofrom, Agile Development