

Ritul K. Soni

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EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Bachelor of Science in Computer Science + Economics GPA: 3.92/4.0 Dean's List

Expected May 2024

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

EXPERIENCE

Country Financial DigitaLab

August 2023 – Present

Incoming Software Engineer Intern

Champaign, IL

- Project to migrate additional applications to Azure Web Apps providing the opportunity for EA and Cloud Platforms team to mature in deploying to, monitor, log, and gain operational experience around running applications on cloud native web applications
- Actuarial research code project involving refactoring code written in SAS to Python and documenting the process

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

- Successfully led and mentored multiple teams of five students in semester-long projects, ensuring timely completion of deliverables. In this role, I emphasized the use of scrum boards, Git version control, and promoted strong communication practices, solidifying my proficiency in agile methodologies
- Instructed students in a range of technical subjects including Flutter, React, various APIs, and game development with Pygame, as well as teaching machine learning techniques using Python and Jupyter Notebook

Career Advancement Exchange

February 2023 – July 2023

Head of Research & Development

Chicago, IL

- Achieved a 70% increase in user engagement and platform adoption by leading market research initiatives, leveraging data analytics and AI techniques to identify key trends and user preferences.
- 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

PROJECTS

Personal Website and Blog | NextJS Typescript Prisma

May 2023 – Present

- Crafted a dynamic [Personal Website](#) using Next.js, showcasing an interactive blog documenting personal experiences as a first-generation student in corporate America, academia, and insights into the impact of AI.
- Curated a comprehensive projects section highlighting diverse accomplishments and skills. Maintained an active "Now" page offering real-time insights into current pursuits, both professional and personal

US Wage & Employment Data Visualization | D3.js Javascript HTML/CSS Tableau

June 2023 – August 2023

- Used D3.js to visualize Bureau of Labor Statistics data, cleaned with Python and adjusted for inflation using CPI.
- Authored and developed a [Data Visualization Narrative](#) exploring the profound effects of artificial intelligence on the job market and wrote a [Research Paper](#) investigating the impact of automation on Telephone Operators

TECHNICAL SKILLS

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

Technologies: Git, GitHub Actions, Docker, Node.js, Google Cloud Platform, AWS, Firebase, Vercel, MongoDB

Frameworks & Libraries: React, NextJS, Flutter, Flask, TensorFlow, OpenCV

Interests: Quantitative Research & Development, Machine Learning, Full Stack Dev, Frontend Dev, Mobile Dev

Spoken Languages: English, Spanish, Hindi, Gujarati, Urdu

Skills: CI/CD, Agile Development, Test-Driven Development (TDD), Microservices Architecture, APIs, Generative AI