

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**

May 2024 (Expected)

Masters of Computer Science (M.C.S)

Aug 2024 - May 2025 (Expected)

Relevant Coursework: High Frequency Trading, Data Structures, Algorithms, Computer Systems, Data Visualization

EXPERIENCE

Country Financial DigitaLab

August 2023 – Present

Software Engineer Intern

Champaign, IL

- Migrated applications to **Azure Web Apps** using **PHP & JavaScript**, enhancing the EA and Cloud Platforms team's expertise in cloud deployment, monitoring, and logging
- Refactored and migrated actuarial research code from **SAS** to **Python** documented and transition process

Carle College of Medicine

January 2023 – May 2023

Software Engineer Intern

Champaign, IL

- Created an interactive interface with **Flutter** offering visualizations of heart anatomy and conditions
- Developed a 3D digital viewer for heart models and designed a **Firebase** backend for efficient storage and retrieval of disease-specific models. Enhanced physician-patient communication on cardiac issues and treatment options

Department of Computer Science, UIUC

January 2022 – Present

Project Manager CS222, CS124 Honors

Champaign, IL

- Led and mentored several teams of five students in semester-long projects, utilizing **Scrum Boards** and **Git** for version control, and fostering strong communication to ensure timely deliverable completion, thereby demonstrating proficiency in agile methodologies
- Educated students on technical topics such as **Flutter**, **React**, **APIs**, and Pygame-based game development, along with **Python** and **Jupyter Notebook** for **Machine Learning** techniques

Career Advancement Exchange

February 2023 – July 2023

Head of Research & Development

Chicago, IL

- Led market research initiatives using **Data Analytics** & **AI**, resulting in a 70% boost in user engagement and platform adoption by identifying key trends and user preferences
- Integrated **AI-driven algorithms** for resume screening and candidate matching with the development team, cutting manual effort by 40% and enhancing 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, created **Python Data Cleaning** software and adjusted relevant value for inflation using latest CPI values.
- 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/Typescript, 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: Network Programming (TCP/IP), Computer Intelligence, Multi-Threaded Applications, Real-Time Programming