

Aryan Arora

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Education

University of Illinois Urbana-Champaign (UIUC)

Urbana-Champaign, IL

BS in Computer Science, Grainger College of Engineering - GPA: 3.9/4.0

Aug. 2022 - May 2025

Coursework Completed: CS 225H - Data Structures, CS 233: Computer Architecture, In Progress: CS 374: Algorithms, CS 407: Cryptography

Experience

CS 225 Data Structures and Algorithms, UIUC

Urbana, IL

Course Assistant

Jul. 2023 - Present

- Worked on enhancement of the C++ Autograder for the course by lowering the execution times for a grading job.
- Conducted Labs with other CAs; Assisted students in debugging their code for Machine Problems during office hours.

CS 173 Discrete Structures, UIUC

Urbana, IL

Head Course Assistant

Jan. 2023 - Present

- Developed and Integrated a Haskell Autograder for the Honors Section of the course into PrairieLearn (LMS).
- Initiated new projects for development of the course. Assisted students during office hours and solved their doubts. Involved in grading honors homework submissions.

Technology Entrepreneurship Center, UIUC

Urbana, IL

Data Analytics Specialist and Community Development Liaison

Feb. 2023 - Present

- Assisted in running the Cozad New Venture Challenge. Over a 100 teams participate in the competition each year with a prize pool of over 300,000\$; Led the Student Advisory Board. Suggested methods to expand the entrepreneurship community on campus.
- Conducted thorough data analysis of the engagement of the startup ecosystem on campus with TEC. Analysed metrics from student attendance at events to development of an Engagement Timeline for each participant.

Rubix Data Sciences Pvt. Ltd.

Mumbai, India

Data Science Intern

Jun. 2021 - Aug. 2021

- Contributed to the development of a logistic regression model in Python to model the default behavior of Indian Companies using financial data of the past decade.

Projects

String Graph Assembly

Bio-Informatics Project

Mar. 2023 - May 2023

- Developed a project based on bio-informatics, attempted to reproduce the genome of S. Aureus from raw DNA sequences utilizing methods from the StriDe Assembler
- Made use of sequencing techniques such as FM-Index, Burrows Wheeler Transform and De-Bruijn Graphs

Distributed Web Assembly Runtime

Developer

Oct. 2022 - Dec. 2022

- Worked in a team of 3 to implement a web assembly on a distributed worked system for Rust in Rust

MidFire

Money denomination identifier for the visually impaired

Nov. 2021 - Dec. 2022

- Developed ML enabled app for currency identification for visually impaired users; conducted research in machine learning, disability support, and augmentative technology. Project Report: <https://tinyurl.com/MidFireDev>

Other Works

Traffic Sign Detection Using Multi-Layered Convolved Neural Network

Mentored Research

Apr. 2021 - Aug. 2021

- Worked on developing Multi-Layered Convolved Neural Networks for Traffic Sign Detection under the mentorship of Dr. Vikas Dubey from IIT Delhi. Link to paper: <https://tinyurl.com/CNNTraffic>

Analyzing the Board Game Monopoly using Markov Chains

Monopoly Analysis

Nov. 2021 - Dec. 2021

- Studied and analysed the board game Monopoly using Markov Chains to find out the properties that have the highest ROI and then simulated over 1000 rounds of Monopoly and compared it to the original findings. Link to paper: <https://tinyurl.com/monopolymarkovchain>

Technical Skills

Programming C++, Java, Python, Rust, Haskell, PHP, R, Swift, JS

Other Technologies AWS, Azure, Raspberry Pi, Microsoft Office (Certified Specialist), XCode, Quantum Computing, Android Studio