

# Kirat Arora

☎ 7742722429 ✉ kiratarora@umass.edu 🔗 linkedin.com/in/kiratarora 📄 github.com/kiratarora 🌐 kiratarora.com

## Education

University of Massachusetts Amherst

Expected Graduation: May 2024

Bachelor of Science in Computer Science and Mathematics

GPA: 3.96/4.0

**Relevant Courses:** Data Structures, Algorithms, Programming Methodology, Computer Systems, Artificial Intelligence

**Certifications:** Ethereum and Solidity, *Udemy* | Fruity Loops Studio, *Udemy* | Adobe Photoshop, *Udemy*

**Awards:** Dean's List (all semesters) | High Commendation, *International Utopia MUN* (Oct 2017) | High Commendation, *Utopia MUN* (Jul 2017) | Certificate of Excellence, *Dhanak Theatre* (Sep 2016) | First Prize, *Goonj Theatre* (Aug 2016)

## Technical Skills

**Languages:** JavaScript, Python, Java, Solidity, HTML, CSS, C

**Technologies:** Ethereum, FL Studio, React, Postman, Firebase, Heroku, Unity, React Native

## Work Experience

Manning College of Information and Computer Sciences

Sep 2022 – Present

Undergraduate Course Assistant

Amherst, MA

- Coordinate with instructors to aid students taking Probability Theory comprehend its principles and applications
- Grade homework assignments for 250+ students and provide constructive feedback to supplement students' learning
- Respond to students' queries on Piazza to explain core concepts and resolve doubts regarding the course materials

Center for Multicultural Advancement and Student Success

Sep 2021 – Present

Programming Assistant

Amherst, MA

- Organize culturally enriching programs to support student success and sense of belonging for the underrepresented
- Collaborate with other campus departments and registered student organizations for co-programming signature events
- Employ strategic communication methods to publicize events and ameliorate outreach to the campus community
- Conduct research and provide support for the organization management and foster welcoming work environment

## Leadership Experience

CICSoft Organization, Manning College of Information & Computer Sciences

Nov 2021 – Present

Co-President

Amherst, MA

- Managing the core team of 8 members responsible for organizational maintenance, along with the other co-president
- Directing the logistics, social media and teaching teams tasked with improving student engagement and learning
- Established the organization to provide a platform for students to learn app development with 3 co-founders
- Implemented and enhanced forms on CICSoft's website using HTML, CSS, and JavaScript, deployed on GitHub Pages
- Engineered 2 new functionalities for a Flask API deployed on Heroku to handle data of 170+ members on Firebase

**Other Leadership Positions**

- Guided and mentored 300+ middle school students conceptualize their ideas in the form of a movie Dec 2018
- Served as an integral part of Organizing Team during Delhi University's Model United Conferences Aug 2017 & 18

## Projects

CrowdCoin

Jul 2022

- Created a block chain application that aims to provide a safeguard against malicious Kick-starter initiatives
- Implemented a verification process, in which spending of money can be monitored and reviewed by the donors
- Designed an interactive front-end for the app using ReactJS, NextJS and Semantic-UI

ChatBox

Present

- Designing a block chain application that allows wallets to communicate with each other
- Constructed two solidity smart contracts overseeing the security and anonymity of the chats

Admin Panel

Present

- Implementing an admin panel for CICSoft along with 2 other developers to handle and manipulate 170+ member data and their attendance tracking

Lottery

Jun 2022

- Developed a smart contract that simulates a lottery, deployed on the Ethereum's Rinkbey Network using Solidity and Web3. Participants enter by staking their test ether, and winner takes all

Python Games Pack

Sep 2019

- Programmed a pack of 4 games in python, connected to a SQL database which stores winner stats. Used programming techniques to implement well known games such as Plot4 and Math Wiz as well as an original game, using Numpy, Matplot, threading and mysql